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OCTOBER 29 1960

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Volume 174

OCTOBER 29, 1960

No. 4211

Cosmetics for Russia RECIPROCITY OF CONSIGNMENTS

WHAT is believed the first consignment of cosmetics to Russia from the United Kingdom since the war has been sent by Boots Pure Drug Co., Ltd., Station Street, Nottingham.

It includes lipsticks, face powder and cold cream and is valued at "several thousand" pounds. The company have received a reciprocal consignment of Russian perfumes and cosmetics, equal in value to the British shipment, for sale hrough their retail branches.

Fire-fighting Equipment EFFECT OF NEW FACTORIES ORDER

OWNERS and occupiers of more than 220,000 factories in Britain which are subject to the Factories Acts have to provide adequate fire-fighting equip-nent from December 1. That is one effect of an Order made by the Miniser of Labour and published on Octo-ber 11 bringing the fire provisions of he Factories Act, 1959, into operation on that day. The Order also brings into orce a provision requiring fire alarms o be installed in about 10,000 more actories than are at present required o have them, and for the testing and examination of those alarms periodially — normally at least once every hree months. Other important pro-visions of the Act which become effecive are those transferring from district councils to fire authorities the duty of ensuring that certain factories have adequate means of escape, and empowering fire brigade officers to enter actories when authorised by a factory nspector, for the purpose of assisting he inspector on fire matters, and en-abling the Minister of Labour to make regulations about fire prevention and ire fighting.

Essence Manufacturers CHANGES OF OFFICERS

MR. Eric L. Bush (of W. J. Bush & Co., Ltd.) has been elected chairman of the British Essence Manufacturers' Association and of the Essence Export Group in succession to Mr. F. G. Pentecost (A. Boake, Roberts & Co., Ltd.), who is reducing his commitments after serving as vice-chairman since 1949 and chairman since 1954 of the two organisations. At a luncheon given recently in Mr. Pentecost's honour, the executive committees of the two organsations paid tribute to his outstanding services to the industry and presented him with an oil painting as a token of

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their respect and esteem. Mr. R. D. F. Marlow, who has been appointed assistant director-general of the Institute of Directors with effect from November 1 has resigned from the secretaryships of the British Aromatic Compound Manufacturers' Association, the British Essence Manufacturers' Association and the Essence Export Group, He is succeeded by Mr. F. T. Atkins, who will also take over Mr. Marlow's executive responsibilities in connection with the Essential Oil Importers' Section of the London Chamber of Commerce.

Pharmaceutical Society

EXAMINATION RESULTS

THE following candidates were successful in the Intermediate examination (old regulations) held by the Pharmaceutical Society in Scotland in September:—

BITTLESTONE, Judith, Durham; CLAR-ENCE, Helen W., Stocksfield-on-Tyne; HARRIS, J., Birtley; LISTER, Pamela, Whitehaven; MORGAN, V., Sunderland; MURRAY, J., Boldon Colliery; ROBERTS, S. J., Penrith.

The following were successful in Part I of the Pharmaceutical Chemist Qualifying examination (new regulations) held by the Pharmaceutical Society in Scotland in September (A= pharmacognosy I; B=pharmaceutical chemistry I; C= physiology):—

BETT, J. M. (C), St. Monance; DURNIN, Josephine C. R. (A, C), Aberdeen; JUSTICE, Doreen C. (A), Aberdeen; MACFADYEN, I. R. (A), Dundee; PRATI, I. G. (B), Keith; SMITH, I. M. (A, B), Newmachar.

Exporting to Europe A NEW COUNCIL SET UP

THE formation of a new Export Council for Europe, to be organised on the same lines as the Dollar Exports Council, was announced on October 20. It is to be headed by Sir William McFadzean (president, Federation of British Industries). Another measure announced to aid exporters is that the Export Credits Guarantee Department is to insure credit on longer terms than the normal maximum in certain special cases.

International Quarantine DISTRIBUTION OF DISEASE

ALTHOUGH there have been notable improvements in the amount of illness and incidence of deaths from quarantinable diseases in the past four years (1956-60), foci of infection and distribution of those diseases throughout the world have changed little, According to information assembled for the committee on international quarantine of the World Health Organisation, which met in Geneva, October 17-22, the present situation of the six quarantinable diseases is as follows:—*Cholera:* Usually present only in East Pakistan and some parts of India and neighbouring states, the disease also appeared in 1960 in Burma, West Pakistan and



PRIZE-WINNERS AT NICE: Prize-winners in the Tweed window-display competition, 1960, organised by Lentheric, Ltd., 17 Old Bond Street, London, W-1, with their host and hostess Eric Greenstreet (sales director) and Mrs. Greenstreet; and French friends of the company on the airport terrace overlooking the Mediterranean at Nice. (See C, \& D., August 6, p. 187.)

Afghanistan. *Plague:* Many foci of wild rodent plague still persists in Asia, Africa and the Americas. Nevertheless annual averages of deaths from the disease dropped from 170,300 in the years 1919-28, to less than 200 in the 1954-58 period. In 1959 a total of only eighty-three deaths was registered in ten countries of those continents. Smallpox: India and East Pakistan continue to be the main focus. In 1958 they accounted for 218,000 cases out of the world total of 242,000. In 1959 the figures fell to about 50,000 out of 74,000. More than any other disease, smallpox is liable to be imported, especially by air, into countries normally free of it. Yellow fever: In spite of the continuing increase in air traffic, yellow fever has not spread outside Africa and America. It exists princi-pally as jungle yellow fever which affects monkeys and is rarely contracted by man. The annual number of cases is now low, although an epidemic oc-curred at the end of 1959 in parts of Ethiopia and in the Blue Nile and Upper Nile provinces of the Sudan, where at least 118 cases were notified with eighty-seven deaths. Typhus: Contrary to general belief, typhus so or gressing in Africa, the Federation of Ethiopia and Eritrea now being the principal focus. In the Americas, the improvement in the situation is constant and cases dropped from 25,000 a year in 1946-50 to 7,500 in 1956-60. A similar situation may be observed in Asia since the Korean War, although national statistics are incomplete. Since the end of the Second World War there has been a considerable reduction in the number of cases registered in Europe, and although no figures are available for the U.S.S.R., non-official reports indicate that the disease has almost disappeared there. Relapsing fever: Since the introduction of modern insecticides, it is an easy matter to prevent relapsing fever, which is transmitted by lice and ticks. Since 1949 the only cases notified in Europe were two in Northern Ireland in 1956. In the Americas, there were two doubtful cases, and hardly any in Asia. Although in Africa the number of cases seems to be on the increase the disease does not constitute a serious problem except in the Federation of Ethiopia and Eritrea.

Milk Composition

PROPOSALS TO PROMOTE IMPROVEMENTS

PROPOSALS to raise the food value of milk were made in the report of the Cook Committee on the Composition of Milk, published on September 21 under the title "Milk Composition in the United Kingdom" (Cmnd. No. 1147). The adoption of certain of the Committee's recommendations would require changes in the law, and the Government departments concerned are now considering the report in detail and seeking the views on it of representative organisations. The committee's main conclusions include the following:—The consumption of milk solids other than fat (known collectively as s.n.f.), at least by some groups of the population, should be increased. Changes in the fat content of milk are

not recommended; the evidence of a link between either atheroma or coronary disease and milk fat is regarded as suggestive, but not conclusive. A close examination of the available records shows that both fat and s.n.f. contents of milk have been declining gradually over the past thirty years in England and Wales, though they have remained comparatively static in Scotland. The belief is expressed that most milk producers could improve the composition of their supply by changes in herd management if given a sufficient incentive to do so, and that the dairying industry should seek to improve the s.n.f, content of the milk supply. As a first step, the Milk Marketing Boards should pay less than the normal price for supplies deficient in s.n.f. To en-able that to be done, the composition of milk supplies from farms would need to be tested regularly by the dairy or depôt to which they were first consigned. Measures taken by the Milk Marketing Boards should lead to a general improvement in milk composition, and it should be possible within ten years to prohibit the retail sale of whole milk containing less than 3 per cent, fat or 8.5 per cent, s.n.f.

Hospital Building

EXPANDING PROGRAMME TO CONTINUE

THERE are now over 180 major hospital schemes in England and Wales, each costing over a quarter of a million pounds, at various stages of build-ing or planning. That illustration of the increasing tempo of hospital building was given by Miss Edith Pitt (Parliamentary Secretary, Ministry of Health) when she visited the new West Cumberland Hospital, Hensingham, near Whitehaven, on September 22. She said that the considerably expanded, and still expanding, programme, covering both the construction of new hospitals and the modernisation and extension of existing ones, was now evident in many parts of the country. Included in the 180 major schemes chosen by the Minister were thirty-four new hospitals (including the West Cumberland) of which nine were partially completed, eight had been started, and seventeen were at various stages of planning. Two new dental hospitals were also being planned. The new West Cumberland Hospital, of which the second stage of ward accommodation providing 100 new beds has been in use since last December, will eventually have 416 ad-ditional beds.

IRISH NEWS

Hospital Pharmacists

SALARY RISE SOON?

"HOSPITAL pharmacists are poised on the threshold of better things, and if all goes well, I anticipate that we shall be able to report to members in the near future that a salary scale commensurate with our skill and responsibility will be introduced." That was stated by Mr. R. J. Power (chairman) at the annual meeting of the Association of Hospital and Public Pharmacists, held in Dublin on October 16. Stating that professional status could be improved only by the implementation of a proper salary scale, the chair-man outlined the ways and means by which it was hoped to have such a scale introduced shortly. He said that in order to ensure that the Associa-tion's efforts met with complete success, it was essential that they should have a 100 per cent. membership, and he appealed to all members to take an active interest in the work of the or-ganisation so that they could enter into future negotiations secure in the knowledge that they had the support of the entire body of hospital pharmacists. Mr. Power was re-elected *Chairman*, and Mr. P. Fahey was elected *Vice-chairman*. Miss Anne McCarthy was elected *Secretary* to replace Miss J. L. Burke who asked to be relieved of office due to pressure of business, Tributes were paid to the efficient manner in which Miss Burke had discharged her duties during the year, Mrs. E. V. Browne was elected *Treasurer*. The following were elected to the committee, Mrs P. Darcy, Mrs, M. Toomev, Mrs. M. Somers, Miss J. L. Burke, Messrs, D. O'Shea, M. Lohan, R. Daly, P. J. Nolan, J. Roche, P. M. Browne, and P. Fullam, Mr. J. J. Coffey said he would like to see a few more general meetings of the Association being held during the year and other members spoke in favour of having more meetings in the provinces. Commandant B. J. Anderson reported on the progress made by the committee set up to investigate the possibility of establishing a representative pharmaceutical association (see C. & D., October 22, p. 494). The chairman said that the aims of the committee had the approval of the Association which wished it the best of luck. It was decided to hold the next meeting in Thurles.

Benevolent Fund

ANNUAL DANCE ARRANGEMENTS

THE annual dance of the Benevolent Fund of the Pharmaceutical Society of Ireland—always a great social success—is to be held in the Gresham hotel, Dublin, on December 6. An energetic committee are working to ensure that the function not only equals those of previous years, but eclipses them. Tickets (25s. each) may be procured from any of the following members of the Committee: Messrs. A. Digan, Sutton; D. Costello, Drumcondra; C. Conefrey, Pearse Street; and Miss E. Smith. 2 Emmet Road, Kilmainham. Tables are bookable at the hotel on production of the dance tickets. Subscriptions to the Fund addressed to any member of the Committee, or c/o College of Pharmacy. 18 Shrewsbury Road, Dublin, will also be gratefully acknowledged.

IRISH BREVITIES

THE REPUBLIC

THE annual meeting of the pharmacy branch of St. Joseph's Young Priests' Society is being held at 23 Merrion Square, Dublin, at 8 p.m. on November 15.

THE NORTH

New Statutory Rules and Orders have been issued amending the Northern Ireland poisons legislation. They are the Poison List (Amendment) Order (Northern Ireland), 1960 and the Poisons Amendment Regulations (Northern Ireland) 1960. Both took effect on October 1.

THE annual carnival dance in aid of the Northern Ireland Chemists' Benevolent Fund is being held at the Orpheus ball-room, Belfast, on November 10. Including supper the cost is 15s. 6d. each and tickets are available from the secretary of the Pharmaceutical Society of Ireland, 73 University Street, Belfast, 7, and the secretary of Ulster Chemists' Association, 4, Waring Street, Belfast, 1.

NEWS IN BRIEF

THE official index of retail prices at September 13 was 110⁻⁵ compared with 110⁻⁴ in August (January 17, 1956 = 100).

THE Scientific Instrument Manufacturers' Association have chosen "Productivity" as the main theme of their ninth convention, to be held at Eastbourne, November 17–20.

THE Executive Council of the Soke of Peterborough is to ask the Minister of Health to investigate complaints about the lack of pharmacies on the outer fringes of Peterborough.

A LIST of periodicals held in the library of the Chemical Society, Burlington House, London, W.1. is available, price 5s., post free, to those who use the library and to librarians of other institutions.

A COMPETITION at a dance arranged by Stockport Branch of the Pharmaceutical Society, held at Cheadle recently, realised £5 for the Society's Benevolent Fund. Over 100 members and friends attended.

THE following officers of the International Federation of Societies of Cosmetic Chemists have been elected: *President*, R. H. Marriott, Britain; *Treasurer*, G. Dony, Belgium; *Committee*, J. Artigas, Spain; L. W. Masch, Germany; P. Velon, France.

APPLICATIONS for grants from the research fund of the Chemical Society are to be considered in November, and should be submitted not later than November 15. Forms of application may be obtained from the general secretary, the Chemical Society, Burlington House, Piccadilly, London, W.1.

THIRTY scientists specialising in the diagnosis and treatment of radiation injury assembled at the Palais des Nations, Geneva, on October 17 for a six-day meeting held under the joint auspices of the World Health Organisation and the International Atomic Energy Agency. The aim of the meeting was to promote discussion of a number of studies which included the acute radiation syndrome in man and its treatment after radiation accidents; radiation given therapeutically and followed by tissue transplantation; bone-marrow transplantation in man and animals, and other similar problems.

TOPICAL REFLECTIONS By Xrayser

Shoes and sealing wax

Not having heard the B.B.C. television programme on October 18, during which the marketing methods of the British pharmaceutical industry came under review, I was glad of the opportunity of reading your report of the proceedings on p. 498. I note that your heading says "An argument on B.B.C. television," and a reading of the matter suggests that the subject generated more heat than was seemly, making it quite inappropriate for you to use the title "a discussion." What the viewing public were able to make of it all I have no notion, but one is left with the uncomfortable feeling that the pharmaceutical industry was very much on the defensive and extremely sensitive to criticism. That is due, in large part, to the persistent attacks on the cost of the pharmaceutical service within a National Health Service, successive Chancellors of the Exchequer and Ministers of Health having lost no opportunity to malign both the medicine maker and the medicine taker. Reference was made to replies by speakers at the opening of an exhibition in London to much of the criticism levelled against the industry. Among the replies quoted was one to the effect that the cost of drugs under the National Health Service is small compared with our expenditure in other things such as the cinema, meat and footwear. I accept the fact, but the Government may well argue that, like the flowers of spring, it has nothing to do with the case, for the Government is not asked to find, from public money raised by levy and taxation, a national bill for the public's entertainment, its food, or its shoes. It does have to pay the drug bill, over which it has considerably less control than the individual who chooses his cinema seat, his joint or his footwear. I am not defending Government attacks on a ready made target, but any consumer of goods is entitled to see that he is getting value for his money.

Value

How is value for money to be assessed in relation to the drug bill? It is not to be regarded solely in terms of cash, and there, in the view of many, is where the Government errs. It takes the target of one large single figure, and bemoans its size in relation to previous years, castigating in the process that public throat which swallows cascades of medicine and avalanches of pills. It does not publish, in the same context, details of serious illness averted, early return to work, or shorter stay in hospital. If the Government chooses to departmentalise, the drug industry might find a way of collating statistics more likely to impress than a comparison of the cost to the individual of his cinema, his meat, his footwear, his football pools, his transport to work, or any number of things. But the discussion centred largely on methods of marketing by advertising and sampling. In defending the sampling, Mr. L. M. Spalton, B.Pharm., M.P.S., who put forward the industry's case, said: "If the doctor would use them (the samples) as they were intended to be used, and hand them out to patients who need them, he would save a lot of the cost of prescribing them on the National Health Service." I cannot see that argument impressing the Government, though it may make some impression on pharmacists who dispense National Health Service medicines.

New Zealand

I have no doubt that Government officials in this country have read the annual report (p. 511) of the New Zealand Department of Health. It is a well constructed and well reasoned document, and it points out that the fact that there is a health service with "free" medicine is not the reason for the prevalence of the taking of medicines, as is so often suggested. The report makes a wide survey of conditions in other countries where no such service exists, and concludes that there is no connection between the rise in drug expenditure and "free" medicine, though it does not say that the high cost in some countries might be precisely because of the absence of a health service and a consequent fear of disabling illness.

NEW PRODUCTS AND PACKS

"New Look" for a Product.—Walter Crowe, Ltd., 26 City Road, London, E.C.1, are now issuing their speciality Yestamin in bottle of new shape, with new label and in a new solo "setpiece" for single-bottle display.

Wheat Germ and Royal Jelly. — A new product, Lusty's Royal Serum capsules, described as a "natural wonder food," is being marketed by Lusty's Natural Products Co., Ltd., 278 London Road, Westcliff-on-Sea. Each capsule contains 255 mgm. of wheat germ oil and 50 mgm. of royal jelly.

Oral Vasodilator.—Organon Laboratories, Ltd., Brettenham House, Lancaster Place, London, W.C.2, announce the introduction of Dilavase, a new oral vasodilator for the treatment of peripheral vascular disorders. Dilavase is issued as tablets each containing 10 mgm. of isoxsurprine hydrochloride. The packs are bottles of fifty and 250.

A Sterilised Medicated Dressing.— Roussel Laboratories, Ltd., 847 Harrow Road, London, N.W.10, announce the introduction of Sofra-tulle, a sterilised paraffin gauze dressing incorporating l per cent, of Soframycin, Sofra-tulle is packed in sealed tin containing ten pieces of dressing 4 x 4 in. Supply at this stage is restricted to hospitals and industrial concerns, since the product is not yet included in the Drug Tariff schedule of authorised appliances,

Tablets Against Colds. — Allen & Hanburys, Ltd., Bethnal Green, London, E.2, have launched a new speciality Capriton tablets as a decongestant, anti-allergic and antipyretic preparation against colds, sinusitis and rhinitis. The use of the tablets avoids the need for supplementary topical therapy with nasal drops, sprays or inhalants. There are understood to be no "rebound" congestion and no mucosal damage. Each tablet contains 2 mgm. of chlorpheniramine maleate, 10 mgm. of phenylephrine hydrochloride, 230 mgm. of aspirin, 160 mgm. of phenacetin and 30 mgm, of caffeine. The pack is a tube of twelve tablets. The outer contains twenty-four tubes.

In Suspension or as Tablets. - John Wyeth & Brother, Ltd., Clifton House, Euston Road, London, N.W.1, an-nounce the introduction of Aludrox SA suspension and tablets, each presenting in association an antispasmodic, sedative and antacids. The suspension contains in each 5 mils, 4.75 mils of aluminium hydroxide gel, B.P.; 100 mgm. of magnesium hydroxide gel, B.P.C.; 8 mgm. of butabarbitone; and 2.5 mgm. of ambutonium bromide. The tablets contain in each: 290 mgm. dried aluminium hydroxide gel, of -B.P.; 80 mgm. of magnesium hydroxide, B.P.C.; 8 mgm. of butabarbitone; and 2.5 mgm. of ambutonium bromide. The suspension is issued in bottle of 12 fl. oz. and the tablets in containers of fifty and 250.

Antibiotic in Disposable Syringe. — Erythrocin-I.M. is the new erythromycin compound (erythromycin ethyl succinate) of Abbott Laboratories, Ltd., Baker Street, London, W.1, dissolved in polyethylene glycol. It is prepared specifically for intramuscular use. Compared with other soluble derivatives of erythromycin (designed primarily for intravenous use) the ethyl succinate is claimed relatively non-irritating. Erythrocin-I.M. is stable at room temperature and comes ready for injection. If it has been refrigerated, it should be warmed slightly before use, to make the solution less viscous. The preparation should not be used intravenously or subcutaneously. Erythrocin-I.M. in disposable Abboject syringe is supplied in 2-mil sizes containing 100 mgm. of erythromycin and 1-mil size containing 50 mgm. of erythromycin.

Antihistaminic and Antipruritic.-A new compound, 10-(1-methyl-3-pyrrolidinylmethyl) phenothiazine (methdilazine) for which high antihistaminic and exceptional antipruritic activities are claimed, is being launched by The British Drug Houses, Ltd., Graham Street, London, N.1, under the name Dilosyn. It is available as tablets for adult administration and as a peachflavoured syrup for children. Dilosyn is understood to have provided effec-tive symptomatic relief in a wide variety of allergic conditions and in allergic and non-allergic pruritus including that accompanying chickenpox. Its advantages are its rapid absorption and consequential prompt relief and its sustained action with low-toxicity and minimal side effects. The tablets (8-mgm, compression-coated) are issued in bottles of twenty-five and 250, and the syrup in bottles of 4 fl. oz. (4 mgm. per teaspoonful).

A Deterrent against Smoking .-- Uni-Pharma, Ltd., 109 Kingsway, London. W.C.2, are making available in Britain the smoking deterrent speciality Lobidan, manufactured by Uni-Chemie at Zurich, Switzerland. Each tablet of Zurich, Switzerland. Each tablet of Lobidan contains 2 mgm. of lobeline sulphate, 125 mgm. of magnesium carbonate and 180 mgm. of tribasic cal-cium phosphate. Principle of the product is that cross-tolerance exists between lobeline and nicotine. Regular smoking produces a nicotine blood-level and the nicotine becomes a constant part of metabolism. When the concentration of blood and tissue is reduced, a "psychic yearning" for nicotine is created and the mechanism of addiction is thus set up. Lobeline is understood not to give rise to such habituation. When, therefore, nicotine is replaced by lobeline, the usual nicotine concentration appears psychically to exist, and the yearning for further nicotine ingestion is significantly reduced or even eliminated. Special buffering in Lobidan reduces the effective dose of lobeline to a maximum of 8 mgm. daily and thus, it is understood. eliminates unpleasant side reactions. Lobidan is claimed not to alter the taste of an occasional cigarette.

Hair Bleaches. — Rapidol, Ltd., Inecto House, 27 Dover Street, London, W.I, announce the launching of two new Inecto products: Inecto crème hair lightener, claimed easy to use and to leave the hair in a gleaming condition; and Inecto lanolised Hi-lift, a powder bleach that provides a "perfect" base for pastel tints and rinses.

New Lipstick Shades.—Coty (England), Ltd., 3 Stratford Place, London, W.1, have introduced six new shades in their "24" lipstick. The new shades, each with matching nail enamel, are peach souffle, Bikini pink, Madison time, Voo-doo rose, corn silk and picador pink.

Giant-size Talc. — A honeysuckle talcum powder is the latest addition to the "Margo's" range of products of Sidney Margolis, Ltd., Hemp Row. London, S.E.17. The product is in a multicolour tin with a design in which the honeysuckle pattern predominates. The text is in deep red as are the cap and top of the tin.

A CENTENARY CELEBRATED

Overseas Guests at a Dinner

MANY distinguished guests attended a dinner in the City of London on October 21 to celebrate the centenary of Thomas Christy & Co., Ltd. SIR HUGH LINSTEAD (a secretary of the Pharmaceutical Society), replying to the toast of the guests which had been proposed by the chairman (Mr. Cecil B. Christy, a grandson of the founder), mentioned that there were overseas guests present from Sweden, Switzerland and France. He had a special greeting—in French—for Mr. F. Arnal (chairman of the French section of the Franco-British Pharmaceutical Commission) and Mr. P. Martinot. The toast to the "Past, Present and

The toast to the "Past, Present and Future of Thos. Christy & Co." was proposed by MR. R. L. DEMUTH, who said that it was "no accident that we find the company as vigorous, as well housed, and as successful as at any time in its 100 years' history." Throughout the period there had run the thread of the Christy family. Mr. Demuth also paid tribute to Mr. George Roberts (joint managing director) who, with a few employees, had kept their company going after the premises in Old Swan Lane were totally destroyed in 1941 at a time when Mr. Christy was "in uniform."

Individual enterprise and ingenuity had been the motive force behind the achievement of the Christy centenary; its history had given evidence of its ability to advance towards its bicentenary. Today there was a "commercial revolution in which ideas and tastes are determined by the advertiser and attendant services are being prostituted to serve him." Mr. Demuth was certain that the company would not yield their personality too readily but would have the courage of their inheritance to sacrifice, in part at least, ready rewards by sometimes taking a stand and backing it.

He believed they would marry their independent individuality with the trend of the times to prosecute the new task as successfully as in the past.

INFORMATION WANTED

The Editor would appreciate information about the following :

Duradillan tablets (Phillips & Dughan) Amary's perfume "Soir des Fleurs"

TRADE NOTES

Perfume Spray Set.—Goya, Ltd., 160 New Bond Street, London, W.1, have added to their perfume Cologne spray series their newest fragrance Love Affair.

Changed Prices. — Phillips, Scott & Turner, Ltd., 179 Acton Vale, London, W.3, announce advances (operative from October 24) in the prices of Andrews liver salt and Delrosa rose-hip syrup.

Addition to Range.—Savlon hospital concentrate is now available as a dispensing pack in 1-gall. tin. The manufacturers are Imperial Chemical Industries, Ltd., pharmaceuticals division, Fulshaw Hall, Wilmslow, Ches.

Coloured for Identification. — The 10-mgm. strength of Decaserpyl tablets issued by Roussel Laboratories, Ltd., 847 Harrow Road, London, N.W.10, are coloured pink for convenience of prescribing and administration.

Christmas Bonus Parcel. — L. G. Colomb & Co., Ltd., 3 King Street, Covent Garden, London, W.C.2, offer a bonus parcel of Delage perfume Christmas novelty packs showing 51 per cent. on outlay. Supplies are available direct or through wholesalers.

No Saturday Deliveries. — Biorex Laboratories, Ltd., 47 Exmouth Street, London, E.C.1, are now operating on a five-day week basis. Hospital orders are being executed only Monday to Friday (no orders dispatched on Saturdays). The arrangement comes into force on October 29.

Distribution Change. — From November 1, Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1, are ceasing to distribute the products of Fairy Dyes, Ltd. From that date orders and inquiries should be addressed direct to the manufacturers, at 2 Glendower Place, London, S.W.7.

Reproductions of Masterpieces.— Kimberly-Clark, Ltd., Larkfield. Maidstone, Kent, are offering reproductions from paintings by Degas, Manet and Waugh, printed in full colour on textured paper simulating canvas, to customers for Kotex. The set, valued at over 30s., is available for 3s. 11d., plus a flap from a Kotex box.

Administration Change. — Sanitas Group Sales, Ltd., 51 Clapham Road, London, S.W.9, now handle all orders and accounts for W. Woodward, Ltd., the Sanitas Co., Ltd., Oppenheimer, Son & Co., Ltd., Lactagol, Ltd., Liqufruta Laboratories, and Elsan Manufacturing Co. A new price list and scale of discounts are available.

Wright-Fleming Antigens. — Pollaccine and all other antigens manufactured by the Wright-Fleming Institute are now obtainable only through the sole agents, Beecham Research Laboratories, Ltd., Brentford, Middlesex. Pollaccine becomes available from November 1 in a range of sets of 5-mil vials in various unitages per mil and in single 5-mil and 10-mil vials.

Foreign Proprietaries. — Roberts Chemists (Bond Street), Ltd., 76 New Bond Street, London, W.1, have in stock over 500 Continental proprietaries, including products under the trade marks Kisby, Collyre bleu, Okasa. Vademecum, Tche Hao, Boule Quies, Rowachol, Rowatinex, Rowalind, Hirudoid, Combizym, Monotrean, and Luizym.

Withdrawn. — GLAXO LABORATORIES, LTD., Greenford, Middlesex, have discontinued manufacture of Cortelan eye drops and eye ointment, and of Adexocal tablets. — ROUSSEL LABORATORIES, LTD., 847 Harrow Road, London, N.W.10, announce that Crodimyl and Coltromyl products are being withdrawn; no further supplies will be available when present stocks are exhausted.

Name Changes.—Glaxo Laboratories, Ltd., Greenford, Middlesex, announce that Efcortelan and Efcortelan-N No. 1 ointments are now known as Efcortelan and Efcortelan-N creams; Efcortelan and Efcortelan-N no, 2 ointments as Efcortelan and Efcortelan-N ointments; Predsol and Predsol-N No. 1 ointments as Predsol and Predsol-N No. 2 ointments as Predsol and Predsol-N No. 3 ointments as Predsol and Predsol-N No. 2 ointments as Predsol and Predsol-N No. 3 ointments.

Bonus Offers

SCRAM PRODUCTS, LTD., Dartmouth Park Hill, London, N.W.5. Scram. 5 per cent. on 1 doz. in display box.

MANUFACTURERS' ACTIVITIES

Data-processing System Ordered. — Beecham Group, Ltd., have ordered an Orion data processing system at a cost of approximately £300,000. The system is to be used for the production of sales and marketing statistics, and for invoicing, customer accounts and stock control at Beecham House. Brentford.

Holiday Contest Winner. — Vick International, Ltd., held a reception in London on October 12, to present the winner of their Rayfilta holiday contest with the prize of £850. The winner, Mrs. L. M. Tonks, Hall Green, Birmingham, travelled to London the day before, and stayed overnight as the guest of the company. Competitors were asked to place in order the eight attributes of Rayfilta sunburn prevention cream and to compose a slogan. The chemists who provided Mrs. Tonks with her entry form (Harber (Chemists), Ltd., Kings Heath, Birmingham) received a prize of £50. Second-prize winners, of which there were six, each had the choice of a scooter or £150; the supplying chemists each received £25.

MANUFACTURE OF SILICONES

A multi-million venture within ten years of starting

SILICONES, by virtue of their waterresistant properties, are gaining increasing favour as constituents of pharmaceutical "barrier" creams and applications. How they are produced commercially was outlined by DR. R. A. GREGORY (managing director, Midland Silicones, Ltd.) in a paper presented to the recent meeting of the British Association for the Advancement of Science (see C. & D., September 10, p. 296). Dr. Gregory said the manufacture of silicones was essentially a postwar development in the field of chemicals. Production had steadily increased until in 1960 the total annual world output was estimated at about 20,000 tons, valued at £40-50 millions. The products, ranging in appearance from oils and greases to hard resin-like materials, were derivatives of elemental silicon which, in turn, was derived from sand.

The first stage in manufacture involved the reaction of silicon (a hard silvery grey "metallic" substance ob-tained by electric-furnace smelting of sand and coke) with methyl chloride. The product was ground to a fine pow-der which, on heating with methyl chloride to 300° C, reacted with it to form a mixture of colourless fuming liquids-the chlorosilanes. (Other types of chlorosilane could be obtained by reacting silicon with compounds of benzene.) The mixtures of chlorosilanes thus obtained were then subjected to a complex series of distillation processes in a plant resembling a smallscale oil refinery, in order to separate them into purified components. Chlorosilanes were converted into silicones by reaction with water. The two liquids were stirred together in a glass-lined vessel, whereupon the mixture separated into two layers, a silicone oil on the top and an acid layer underneath. The types of silicone oil obtained depended on the type of chlorosilane used in the reaction.

The crude silicone oil was washed free from acid and further treated in a variety of ways according to type of finished product required. Oils ranging in consistency from free-running iliquids to heavy syrups were produced, and by mixing the oils with metallic soaps or other fillers a range of greases could be obtained. Other silicones were produced as varnishes which, after application followed by drying and baking, would impart hard adherent films to many surfaces. Stiff jellies or gums could also be produced that developed rubbery properties when mixed with finely powdered fillers such as silica and then vulcanized. Because of their relatively high cost, those materials could not at present com-pete with similar non-silicone materials, under ordinary conditions of usc. However, they had the valuable property of maintaining their action over a wide range of temperatures, at which conventional materials might be frozen hard and brittle or burnt and reduced to a smouldering mass. Throughout the world a large amount of re-search work was in progress on the production of new and improved types of silicones. Some had already completed their laboratory trials and were in small-scale production. Many more were in various stages of development. The silicone manufacturing industry in this country had grown from nothing to a multi-million-pound venture em-ploying a thousand people in the short period of ten years, and it seemed certain that a further vigorous expansion would take place during coming years.

(The chemical and physical properties of silicones and their use in pharmacy, medicine and cosmeticology is dealt with in detail in the C. & D, publication "The Pharmacy of Silicones.")

MARRIAGES

MURRAY-McDONNELL. - At St. Mary's Church, Knockbridge, Dundalk, co. Louth, Eire, on October 18, Gerard Murray, Carrickmacross, co. Monaghan, to Eithne Mary McDon-nell, M.P.S.I., Glyde House, Ardee, co. Louth.

PARTON-SMITH.-At Stoke-on-Trent, Staffs, on September 24, Alan James Parton, M.P.S., 82 Road, Stokc-on-Trent, to Margaret Joyce Smith.

Silver Wedding

BEET-DENT. - At St. John's Church, Helsington, Kendal, Westmor-Leslie Beet, F.P.S., to Beatrice Dent. Present address: 39 Albert Road, Morecambe, Lancs.

Golden Wedding

MELLOR-DUNICLIFF. — At the Church Uttoxeter, Congregational Church, Uttoxeter, Staffs, on September 29, 1910, Ernest Martin Mellor, M.P.S., to Mabel Louise Dunicliff. Present address: 12 Market Place, Uttoxeter,

DEATHS

BAILEY.—On October 21, Mr. Edward Bailey, M.P.S., Chequer Farm, Forest Row, Sussex. Mr. Bailey, who qualified in 1921, was the sales direc-tor of Organon Laboratories, Ltd., Brettenham House, Lancaster Place, London, W.C.2.

CHARNOCK.—On October 9, Mr. Joseph Sutcliffe Charnock, M.P.S., 436 Green Lane, New Eltham, London, S.E.9, Mr. Charnock qualified in 1912.

DOBSON .- On October 4, Mr. Frederick William Dobson, M.P.S., 507 Rayners Lane, Pinner, Middlesex, Mr. Dobson qualified in 1923.

HAGUE.—On October 19, Sir Harry Hague, M.P.S., The Chantry, Elstree, Hertfordshire, Sir Harry quali-fied in 1903 and joined A, Wander, Ltd., 42 Upper Grosvenor Street, Grosvenor Square, London, W.1, in 1910, and was managing director and general manager for more than forty years prior to his retirement at the end of 1958. He was knighted in 1931.

JOHN. — On September 28, Mr. Thomas John, M.P.S., 4 Abercromby Square, Castle Douglas, Kirkcudbrightshire. Mr. John qualified in 1952.

LAWRIE.-On September 30, Mr. William Carruthers Lawrie, M.P.S., 105 Corporation Road, Workington. Mr. Lawrie qualified in 1905.

MALLABAND,—On October 7, Mr. William Henry Mallaband, F.P.S., Tre-mavis, Bathford, Bath, aged eighty-five.

MOORHOUSE.-On October 2, Mr. Joseph Moorhouse, M.P.S., 16 Carvers Road, Broseley, Shropshire, Mr. Moorhouse qualified in 1911.

POWELL. - On October 25, Mr. George Storer Powell, M.P.S., 14 Link-Gardens, Redhill, Surrey. field Mr. Powell, who qualified in 1920, was a director and the secretary of H. Hocken, Ltd., Redhill. He was appointed to the Surrey Insurance Committee in 1935, and became its chairman dur-

ing 1941-43. Of the new Pharmaceutical Committee that followed the introduction of the National Health Service he became chairman, 1950-51. During the 1939-45 war he was chairman of the Surrey Pharmaceutical War Committee. For a period from 1938 Mr. Powell was the secretary of the Reigate and Redhill Branch of the Pharmaceutical Society; later he was elected its chairman.

YARE.-On October 13, Mr. Geoffrey Francis Yare, M.P.S., 235 Ashby Road, Scunthorps, Lincs, aged fiftyfour. Mr. Yare qualified in 1928.

PERSONALITIES

SIR EDWIN SAVORY HERBERT, who was chairman of the Royal Commission on Local Government in Greater London which last week issued its report recommending sweeping changes in London's local government, is chairman of the board of directors of H. W. Herbert, Ltd., chemists, Egham, Surrey, and its associated companies. His father (the late Henry William Herbert) who qualified as a pharmacist in 1886, founded in Egham in 1894, the business that today has twenty-two pharmacies. Sir Edwin presides over the company's board meetings in the room in which he was born above the Egham pharmacy.

PROFESSOR PETER BRIAN MEDAWAR, F.R.S., who is Jodrell Professor of Zoology and Comparative Anatomy at University College, London, has been awarded the Nobel Prize for Medicine jointly with PROFES-SOR SIR MACFARLANE BURNET, F.R.S., director of the Walter and Eliza Hall Institute for Medical Research, Melbourne, Australia, for the discovery of "acquired immunological tolerance." The Swedish authorities describe the discovery as one of the greatest events in the history of immunology and the starting point of a new era in experimental biology. The Queen approved a recommendation by the council of the Royal Society for the award of a royal medal to Professor Medawar for his contributions in the field of tissue transplantation immunity and acquired tolerance. He was recently appointed director of the National Institute for Medical Research—a post he will take up in two years' time. Sir Macfarlane Burnet was awarded the Royal Society's Copley Medal for his "distinguished contribu-tions" to knowledge on viruses and of immunology in July. Sir Macfarlane is regarded as one of the leading authorities on virus diseases and discovered the vaccine which produced seasonal immunity against influenza. He has done research at the National Institute for Medical Research, Hamp-stead. He was awarded the Order of Merit in 1958.

OVERSEAS VISITS

MR. LESLIE BIBBY (director, J. Bibby & Sons, Ltd.), left England on September 30, on a fact-finding mission to the United States and Canada.

MR. ALAN L. SPRATT (export manager, the Mentholatum Co., Ltd.), is visiting the company's agents and representatives in the Sudan, Kenya,

South Africa, Ghana, Sierra Leone Nigeria and Senegal. He will be re turning to Slough on December 19.

BUSINESS CHANGES

TIMOTHY WHITES & TAYLORS LTD., have opened a new store on the reconstructed site at 96 Notting Hil Gate, London, W.11.

THE London office of P. B. Cow & Co., Ltd., is removing to Liverpoo Road, Trading Estate, Slough, Bucks on October 31.

DOROTHY GRAY, LTD., have opened a showroom at 8 Grosvenor Street, London, W.1 (telephone: Mayfair 0714).

THE business carried on by Mr. Robert Shand, 210 Gallowgate, Aberdeen, has been closed because the premises are scheduled for demolition. Mr. Shand will continue at 44 Moir Green, Aberdeen.

WHITMOYER-REED, LTD., is the new trading title of R. F. Reed, Ltd., Hertford Road, Barking, Essex, following the acquisition recently of the majority interest in the company by Whitmoyer Laboratories, Inc., Myers-town, Pennsylvania, U.S.A. Whit-moyer-Reed, Ltd., are continuing to manufacture their range of pharmaceuticals and fine chemicals previously produced by R. F. Reed, Ltd., and it is their intention later to introduce the veterinary specialities to the British market which have been established in the United States and Canada by Whitmover Laboratories.

Appointments

P.D.S. (LEEDS), LTD., 1 Howarth Place, Leeds, 7, have appointed Mr. F. Talbot manager in succession to Mr. G. G. Edwards who has retired.

GRIFFIN & GEORGE (SALES), LTD., Ealing Road, Alperton, Middle-sex, have appointed Mr. Clifford E. Passmore field sales manager for the company's Midland region.

EVANS MEDICAL, LTD., Liver-pool, have appointed Mr. Frederick Morrice secretary of the company in succession to the late Mr. Laurence Chrimes.

MACFARLAN SMITH, LTD., an-nounce that Mr J. O. Main, M.P.S. (of J. F. Macfarlan & Co., Elstree), has been appointed assistant London man-erar ut 4 Corles Place W1 ager at 4 Carlos Place, W.1.

CIBA LTD. LABORATORIES, Horsham, Sussex, have appointed the following representatives: Messrs. A. J. Barnes, M.P.S. (for Middlesex); I. B. Douglas, B.Sc. (Pharm.) (South-west Scotland); C. W. M. Jaffray, M.P.S. (North Scotland); N. E. H. Jones, B.Sc. (Birmingham); H. Seifert, M.P.S. (Suffolk and part Essex); and K. S. Taylor, M.P.S. (North London).

PRICES (BROMBOROUGH), LTD., Bromborough Pool, New Ferry, Bir-kenhead, announce that Mr. B. R. Hook (sales director) is to take up an appointment with Unilever, Ltd., as marketing member of the United Kingdom chemical group. Mr. A. Vickery (at present commercial sales manager) is to replace Mr. Hook. Mr. R. E. Davies has been appointed commercial

sales manager and Mr. T. A. Winney, home sales manager.

COMPANY NEWS

Previous year's figures in parentheses

HORLICKS, LTD.—Mr. Clifford J. Harrison is to retire at the end of November.

WHIFFEN & SONS, LTD. — Mr. S. G. Harmer (works manager), has been elected to the board.

LAPORTE INDUSTRIES, LTD. — An interim ordinary dividend of 3 per cent. is to be paid on December 1 for the year ending March 31, 1961. (The same was paid last year but on smaller capital).

TIMOTHY WHITES & TAYLORS, LTD.—An interim dividend on the Ordinary shares is declared of 6 per cent. actual, for the year ending January 14, 1961. It is anticipated that if conditions remain favourable it will be possible to pay a final dividend of 9 per cent, making a total of 15 per cent, for the year.

ILFORD, LTD. — Mr. Rupert A. Withers has decided, while continuing in his full-time executive capacity as deputy chairman to relinquish his appointment as joint managing director. Mr. James Mitchell (sales director) has been appointed to succeed Mr. Withers as joint managing director with Mr. W. H. Dimsdale.

BRITISH ALKALOIDS, LTD. — Interim dividend is being maintained at 1-2d. a 1s, share. The directors report that there was a moderate decrease in sales for the half-year ended September 30, compared with those for the same period of 1959, but since then sales have shown an improving tendency. The final payment last time was 3-3d, a share.

THOMAS HEDLEY & CO., LTD. —Mr. Charles M. Fullgraf has been appointed managing director. Prior to the appointment, Mr. Fullgraf was managing director of the toilet goods division of the Procter & Gamble Co. (Hedley's parent company), and a member of the Procter & Gamble administrative committee in Cincinnati, Ohio. Mr. K. W. Streith, who has been managing director since August 1958, is on leave of absence on a special assignment to develop further Hedley's export business with particular emphasis on the Outer Seven, Mr. Streith remains a director.—Mr. R. F. Jackson 'general sales manager) has been appointed a director.

BEECHAM RESEARCH LABORA-TORIES, LTD.—Mr. C. D. W. Stafford, M.P.S. (chairman and managing director) relinquishes the latter appointment on November 1. He is succeeded as managing director by the assistant managing director (Mr. G. J. Wilkins, B.Sc.). Mr. R. Halstead, M.A., B.Sc., A.R.I.C. (director and vice-president production), Beecham Products. Inc., the group's subsidiary in U.S.A.), is appointed assistant managing director.

FISONS, LTD.—Ordinary dividend s being raised by the equivalent of 2 per cent. to 11 per cent., on capital increased by a one-for-three scrip issue, with a 7 per cent. final for the year ended June 30. Trading profit and investment income of the group expanded from £3,641,360 to £4,509,169, after substantially heavier depreciation. The net profit, after tax and minority interests, amounted to £2,020,620 (against £1,800,527). The directors state that they do not expect to reach the same exceptional level of profit in the current year, but have no reason to doubt that they will recommend a maintenance of the dividend.

SANGERS, LTD. - In a promised statement to members preliminary issued with the full report for the year ended February 29, Mr. John Sanger (chairman) says that in spite of appreciable increase in turnover, the profits fell considerably. As he stated, in the previous year, sales were most encouraging to date but again fell away during the last three months, mainly due to the mild weather. There had been intensified competition over the last two years due to a number of companies, some of which are quite new to the trade, having entered the field in most areas for the distribution of pharmaceuticals. In order to meet that competition, the company had been involved in heavy extra costs throughout the year, particularly in the transport section. In addition, owing to local competition, it was decided to open two country branches. Wages had again risen during the current year so that the total remuncration to salaried and weekly staff amounted to 60 per cent. of the gross profit of the company. "The ever-increasing overheads are a burden to all companies, particularly when trading on fixed margins of profit," adds the statement. As stated previously (C. & D., October 22, p. 499), group net profits contracted from £187,269 to £131,862 in the year ended February 29.

Possible Mergers

IN the financial news again this week have been Howards & Sons, Ltd., and The British Drug Houses, Ltd., each the subject of merger rumours. The chairman of Messrs, Howards (Mr. T. W. Howard), told *The Times* that he hoped to make an announcement about a merger of his company "by the end of this month." The *Daily Mail* on October 25 reported that share dealers were confident that there would be a merger between Glaxo Laboratories, Ltd., and The British Drug Houses, Ltd., and gave a basis of the share exchange recommendation, but *The Guardian* financial correspondent reported the next day that Messrs. Glaxo had denied having talks and that they had consequently made no offer to The British Drug Houses, Ltd.

LEGAL REPORTS

Charged Under Wrong Section

BECAUSE he was charged under a wrong section of the Pharmacy and Poisons Act, 1933, Mr. Cyril Teasdale, M.P.S., 59 High Street, Wombwell, Barnsley, won his appeal in the Queen's Bench Divisional Court on October 20 against a conviction of an offence in relation to a dispensing of Urolucosil tablets. He was awarded costs. The justices for the petty sessional division of Staincross, sitting at Barnsley, had fined Mr. Teasdale £50

after he had pleaded guilty to a summons alleging that on October 1, 1959, "he, being an authorised seller of poisons, unlawfully dispensed a medicine, Urolucosil tablets, otherwise than under the direct and personal super-vision of a registered pharmacist, con-trary to Sections 19 (5) and 24 of the Act." Lord Parker (the Lord Chief Junio, and the construction of the section of the s Justice) said it was found that an employee, without Mr. Teasdale's instructions and without the supervision of a registered pharmacist, dispensed some of the tablets. Mr. Teasdale in fact pleaded guilty, acting on advice. He had since received other advice. Lord Parker said the case raised a highly technical point but he had come to the conclusion that Mr. Teasdale should have been charged under Section 18 of the Act, Section 19 being an exemption clause. "It is stretching the words to say that provisions which afford an exemption are provisions which have to be complied with," his lordship added. "There are no merits so far as I can see in the application. But I think Mr. Teasdale was wrongly charged and the conviction must be quashed." Messrs. Justices Ashworth and Elwes agreed.

Company and Manager Fined

A BELFAST housewife, who had been taking Drinamyl tablets for eight years, told the Belfast Summons Court on October 11 she could not do without them. Mrs. Jean Davis, 32 Lawnbrook Square, Belfast, was giving evidence in a case in which Cornett & Co., Ltd., pharmaceutical chemists. Woodvale Road, Belfast, were found guilty of supplying her with Drinamyl tablets without a prescription given by a qualified medical practitioner. The firm was fined £25. A similar penalty was imposed on Robert McGrath, M.P.S.N.I., manager, who was summoned for aiding and abetting.

Mrs. Davis admitted to the court that although she was now receiving hospital treatment, as an habituate of the drug her desire for it was so great that even during a recent weekend she had borrowed four tablets from a girl who was getting them on a doctor's prescription. Mrs. Davis said that a year ago her doctor prescribed the tablets because she was suffering from depression. But later he stopped the prescription and she changed to another doctor, although he, too, would not give her any Drinamyl. She con-tinued: "I have been getting the tablets at Cornett's on the Woodvale Road without a prescription. The man in the shop is called Bobby and I see him in court today. Sometimes I got fifty tablets for five shillings and sometimes twenty-four for 2s. 6d. When I got them I always asked for Drinamyl. He never asked me for a prescription. Mrs. Davis identified tablets in a small black and white box as the tablets she had purchased. She identified a pre-scription as the one she left in Cornett's that day. Later Mrs. Davis said that she had been in Cornett's pharmacy about a dozen times altogether. Each time she received the tablets there were no markings on the box and the word Drinamyl did not appear. She admitted to Mr. J. K. Pringle, who represented the defendants, that she knew she was not supposed to take the tablets without a doctor's prescription.

Mr. John N. Patterson, pharmaceutical inspector, Ministry of Home Affairs, who brought the prosecution, said his experience of the drug was that people could become habituates of it and it was decided to make the tablets unobtainable without a prescription. Detective Sergeant Samuel Davidson said that when he questioned Mr. McGrath about the sale of the drug he denied it. He could not recall Mrs. Davis and said he had sold only two or three tablets to women with prescriptions. In evidence Mr. McGrath said he did not know Mrs. Davis. She had never been in his shop and he had never sold her any Drinamyl tablets. Shown a prescription bearing Mr. Davis's name, Mr.

McGrath admitted that it had been dispensed in his shop. He added that there were no other tablets of a similar description on sale in the United Kingdom. If anybody got heart-shaped blue tablets from his shop they must be Drinamyl. Miss M. Morton, an unqualified assistant, who had been with the company for four years, said she had never seen Mrs. Davis in the shop and did not know her.

LEGISLATION CONCERNING MEDICINES Public pharmacists' evidence to Working Party

that STRONG recommendation statutory recognition should be given to the proposal by the Aitken Committee that no hospital should be entirely without the services of a pharmaceutical chemist is included in the memorandum submitted by the Guild of Public Pharmacists to the Interdepartmental Working Party on legislation concerning medicines. Another fundamental principle stated in the memorandum is "that it should be clearly enumerated in any future revision of the National Health Service Acts that the purchase, receipt, storage and issue of medicinal substances in hospitals or health centres should be under the supervision of a pharmaceutical chemist.

The Guild has set out a number of general principles that have been borne in mind when preparing the statement, one of which decrees that "Pharma-ceutical advice should be readily available at all levels of administration, i.e., hospital management committees or boards of management, boards of governors or regional boards, and at the Ministry of Health or the Depart-ment of Health." The Guild further be-lieves that "There is no good reason for any differentiation in hospitals between poisons and other medicinal substances. It is desirable that all medicinal substances which are for internal or external use should be treated with equal care. The artificial division of these substances into classes or schedules tends to promote the idea that toxicity is an absolute rather than a relative property and that unwarranted liberties can be taken with certain medicinal substances simply because they are not in a particular schedule. Guild recommends that there The should be only two classes of mediciand substances:—Drugs of addiction and the majority of medicinal sub-stances, not being drugs of addiction. That would simplify hospital procedure without any relaxation of safeguards. The Guild comments upon certain

The Guild comments upon certain statutes. Regarding the Radioactive Substances Act, 1948, the Guild considers that as provision is made in the Act for supply through pharmaceutical channels, "no recommendations are necessary beyond the statement that pharmaceutical chemists should continue to receive recognition as potential distributors of radioactive substances." It is suggested that the Therapeutic Substances Act, 1956, requires consolidation and simplification.

The Guild's only interest in the Medical Act, 1956, is to retain the wording of Clause 53 in any new statute, namely, "Nothing in this Act contained shall extend or be construed to extend to prejudice or in any way to affect the lawful occupation, trade, or business of pharmaceutical chemists and dentists, or the rights, privileges, or employment of duly licensed apothecaries in Northern Ireland, so far as the same extend to selling, compounding or dispensing medicines."

The Guild is of the opinion that the Poison Rules require modification in order that they should conform with the opinions expressed in the "Aitken Report" and which were subsequently accepted by the Minister of Health. The recommendations numbers 27, 28 and 29 of the Report of the Joint sub-committee of the Standing Medical, Nursing and Pharmaceutical Advisory Committees of the Central Health Services Council on the control of Dangerous Drugs and Poisons in hospital, known as the "Aitken Report' (see C. & D., February 2, 1958, p. 198) re-lating to containers of medicines, should be incorporated in any modification of Poisons Rules numbers 27 and 28.

The Guild is also of the opinion that Poisons Rules No. 28 and 29 should be modified as follows:—

Rule No. 28

- paragraph (ii) delete "dispensing or " and delete "a person appointed for that purpose" substituting for this "a duly registered pharmaceutical chemist."
- paragraph (iii) the description "sister or nurse in charge" should be clearly defined.

Rule No. 29

- paragraph (i) delete "dispensing or."
- paragraph (ii) delete the entire paragraph and substitute "In any institution to which the foregoing paragraph does not apply all poisons other than those issued for use within the institution must be stored under conditions prescribed by a pharmaceutical chemist appointed for that purpose."
- paragraph (iii) to be amended as follows: "In every institution every poison, whether included in the First Schedule to these Rules or not, which is stored in the wards or departments must be stored in a cupboard (provided with a lock) reserved solely for the storage of poisons and other dangerous substances. The keys to this cupboard should always be in the possession of the nurse in charge of the ward or department."
- paragraph (iv) delete all words after "pharmacist." Substitute "pharmaceutical chemist" for "pharmacist."
- Add new paragraph (v) to give statutory authority to recommendation No. 33 of the Aitken Report: "A pharmaceutical chemist appointed to supervise the

pharmaceutical arrangements at any hospital, group of hospitals, or health, centre under the control of any Hospital Management Committee, Board of Management, Board of Governors, or Local Health Authority shall have discretion to prescribe special storage conditions as set forth in Rule No, 29 (iii) for any new experimental drug which appears to him to require such safeguard."

Add new paragraph (vi) as follows: "All samples of medicines for institutional use should be sent to the pharmaceutical department."

If the Guild's recommendation that in hospitals medicines should be classified as either drugs of addiction or medicinal substances not being drugs of addiction were accepted it would be necessary to re-draft the Poisons Rules, 1952, numbers 27, 28 and 29 on the above lines but making the new conditions apply to all medicinal substances.

In that case a new title for the statutory instrument would have to be found and the Guild suggests "The Control of Medicinal Substances in Hospital Rules."

The Guild considers that the Dangerous Drugs Regulations 1953, require clarification and amendment to bring them into line with existing practice.

Regulation 10 (1) (e): A definition of "sisters or acting sisters for the time being" is required.

Regulation 10 (2) and 10 (3): As the "Aitken Report" states that "no hospital should be entirely without the services of a pharmacist" and as this recommendation has been accepted by the Minister of Health, those two paragraphs are, in the opinion of the Guild, inconsistent with the spirit of the "Aitken Report" and should therefore be deleted from the Regulations.

Regulation 13 (4) (b): The special provisions relating to certified midwives require to be extended in order to incorporate recommendations No. 35 of the "Aitken Report" which state that midwives working in hospitals should follow the normal hospital procedure in regard to Dangerous Drugs rather than the domiciliary procedure.

Regulation 17: A sister or acting sister is specifically exempted from keeping a Dangerous Drugs register in the form specified for those other persons authorised to possess and supply Dangerous Drugs. The Report of the Joint subcommittee

The Report of the Joint subcommittee on the Control of Dangerous Drugs and Poisons in Hospitals recommends that a standard form of ward Dangerous Drugs record book be used nationally and the Guild suggests that this recommendation should be included in any modification of this regulation.

Trimming Sails to Retail "Winds of Change" POLICY TRENDS DISCUSSED AT N.P.U. AREA MEETING

"IF the wind is blowing, the yachtsman's sails can be set to profit by it." And if it be a wind of change in the retail, then sales may be analysed to catch shopping trends. That was the argument developed by Mr, H. B. Coulson at an area meeting of the National Pharmaceutical Union held at Cambridge on October 16 and it represents also the trend of the discussion as a whole. The meeting, the second to be held in Cambridge (the first was in 1952) differed in two important respects from previous meetings in the series. In the first place no resolutions were on the agenda paper (one resolution, circulated on a supplementary agenda paper, was withdrawn without being put). Secondly, part of the afternoon's programme was reserved for a lecturedemonstration by a non-pharmacist guest speaker.

The proceedings opened with an address of welcome from MR, E, J. WRIGHT as chairman of the Cambridgeshire and Huntingdonshire Branch of the Union, host branch to members from Beds, Bucks, Essex, Herts, Norfolk, Northants, Oxfordshire and Suffolk.

"N.P.U. Matters"

The N.P.U. chairman (MR. GWILYM H. HUGHES) then took over, losing little time in calling on MR. S. J. STEARN (treasurer of the Union) to address members on "N.P.U. Matters." Mr. Stearn said it was always difficult to deal with something that had been said many times before, but he felt im-pelled to defend the N.P.U. against attacks that had been made against it in letters to the Press. The odds against the N.P.U. were heavy, and it was a pity that those who called for more militancy could not try taking a hand in the negotiations. The pace of today was in sharp contrast to the early days of the Union, and the officers were under a tremendous burden. Their brains had to be incessantly pitted against usually well informed opposition. The secretary was being called upon to perform more than any man should be asked to do.

Explaining why the N.P.U. price list had been superseded by a "calculator," Mr. Stearn said the Executive had expended great effort and hundreds of £'s in efforts—eventually successful, so far as drugs were concerned, but not for dressings—to convince the Registrar that it did not infringe the Restrictive Trade Practices Act.

Schemes for joint advertising in London and other areas had fallen through, said Mr. Stearn, because the necessary 80-90 per cent. support had not been forthcoming. Some localities were still able to operate such schemes, but he asked that the advertisements should be submitted beforehand to Queen Square so that high standards could be maintained.

MR. COULSON'S contribution to the meeting was concerned with the activities and potentialities of the Marketing Policy Committee. In 1955 the Com-mittee had been set up because the Executive had become aware of three trends hostile to members. A certain school of sales managers had demanded "maximum sales points" for products previously sold almost exclusively by chemists; trade prices were too often undergoing revisions in which 2-3 per cent. was being clipped from chemists' profits; and retail index figures were showing that the increase in turnover of the multiples was two to three times that of the "private" chemist. The committee had been formed to negotiate with manufacturers on prices and margins; to put in members' hands the means of meeting competition; and to provide a point of liaison with manufacturers in the marketing of their products. At the start the Committee had been suddenly hamstrung by the passing of the Restrictive Trade Practices Act, under which only members themselves could take many forms of action previously open to the N.P.U. Nevertheless as a trade association. negotiations in permitted matters had taken place with dozens of firms, and the trend now seemed to be towards offering better margins to the chemist.

As members knew, the Committee had launched Nucot cotton wool, a powdered glucose and a hot-water bottle at prices to enable competition to be met. The Committee was unanimous that that should be its guiding principle, so that housewives should always feel confident that they could buy from the private chemist as economically as from the multiple. In furthering that aim it was willing to sponsor any line for members-but only if no suitable alternative were already available commercially. Any sponsor-ing meant treading on the corns of manufacturers-including friendly ones -but the Committee believed its members must come first, leaving products at other prices to be "sold" by the chemist at his own discretion according to circumstances.

Point of Contact

The basic fact in all competition was "consumer traffic" — the number of customers actually entering the pharmacy. The point of contact was the shop window, "Have you a modern shopfront? Is your window well lighted? Are your window displays topical, well thought out, eye-catching? If not, why not?" Mr. Coulson challenged members to answer.

Should members link up with television advertising? "Yes," was his answer, if the product merited support, though not at the expense of loyalty to former C.F. manufacturers. Were members careful to "price" goods on display? The price tickets offered from Queen Square were elegant and inexpensive. A new service provided for the making of individual showcards.

The current trend to self-selection, said Mr. Coulson, was here to stay.

He had yet to hear of a conversion that had failed to bring a 25 per cent. increase in sales, and often a doubling of sales pcr assistant had been recorded. The pharmacist handled something like 100,000 items. Not to have fixed prices for them was unthinkable. Sales figures could be analysed to reveal shopping trends, and the N.P.U. was rethinking what it could do for members along those lines, given their co-operation in supplying information. That was why that afternoon's meeting was more than usually important.

MR. A. J. FAULKS, Ślough, asked how the N.P.U. was prevented by the Restrictive Practices Act from issuing a dressings price list, and it was explained that any agreement "to support or to crab" had to be registered, and its sponsors could be called upon to show that it was "in the public interest." What the Union could do was to issue a mass of information about manufacturers' prices and terms and leave the individual to make his own inferences and formulate his own price policy. The Union was similarly prevented from disseminating such information through the trade journals, though those journals could provide it independently.

MR. COULSON informed MR. F. G. BULL, Luton, that the N.P.U. had by no means suggested that members should take up the sale of trinkets or china. But information about trends in demand for "legitimate" merchandise could often prevent members from being caught unawares and losing sales thereby. He told MR. G. E. VALE, Oxford, that the idea of setting up N.P.U. "inspectors" had been toyed with, but it would only become practicable if demanded by an overwhelming majority of members.

MR. WRIGHT told MR. BULL that there was no chance of challenging the Restrictive Practices Act. Any price list would amount to a recommendation and involve a registrable agreement. A fundamental difference with the N.P.U. "calculator" was that it provided a service in helping the chemist buying in metric quantities to translate his purchase prices into apothecaries-system retail prices.

MR. COULSON explained to MR. D. J. CRAWFORD, Dunmow, the Marketing Policy Committee's view that it was not a function of the N.P.U. to create a nation-wide selling organisation. That field was catered for by wholesalers as well as the Union could cater for it. The future was seen as one of cooperation with wholesalers. No new N.P.U. lines were in contemplation. though they would be created if all members so desired. An N.P.U. range of "own goods" had been considered. but no wholesaler had been found ready to pack the required range at the required prices. The only answer at present seemed to be for members to take advantage of their own slack times to pack them at the pharmacy. It appeared that something might be

possible in the field of sundries. MR. STEARN added that the aim should be standard packs for pharmacies, so that customers should not become confused by variations in prices between one chemist and another.

N.H.S. Matters

Latest information on such matters as prescription prices, payment for proprietaries, and drug testing, was given from the platform by MR. J. WRIGHT (deputy secretary), who was greeted with applause. Mr. Wright said the Ministry had at last agreed to accept as a representative sample of contractors the 35 per cent, response that had been the disappointing result of the questionnaire issued in 1958. A joint report was being made to both man-agement and staff sides of the Whitley Council before the end of the month. One necessary preliminary was to bring the 1958 figures up to date. No such inquiry could ever take place again. Instead, some method was needed of gctting on-the-spot figures whenever they were wanted. That would probably mean sending people to call on pharmacies around the country. Methods of getting routine figures at N.P.U. headquarters were also being considered.

The Central Committee had agreed to the recently issued list of standard packs because the alternatives would have been even more objectionable. The requirement that every prescription should be endorsed with the size of the pack used in dispensing it would mean extra work, but it had advantages. The contractor would be paid on his endorsement, perhaps with a warning to change his basic purchase quantities in future. Contractors could rely on having their claimed out-ofpocket expenses allowed (if correctly within the scope of permitted expenses) or on being told about any non-payment. But if they claimed expenses outside the scope of allowed items they would neither be paid nor be told about the non-payment.

Mr. Wright said that the drug testing scheme had been modified so that, if a deviation from B.P.C. limits were not substantial, the case would norm-ally be "recorded" and the contractor not called before the committee. If, too, a fault in a sealed dressing were found by the clearing-house to be due to the manufacturer, there would be no reference of the matter to the pharmaceutical service committee. There would also be issued a limited list of proprietaries liable for testing. The N.P.U. had in mind, he later told MR. CRAWFORD, that such proprietaries should be put on a similar basis to sealed dressings so far as the contractor was concerned.

When questions were invited on Mr. Wright's statement, many of them had to do with rural dispensing, MR, J. E. B. WARDMAN, Sudbury, said that in West Suffolk 40 per cent. of the population obtained their medicines from the doctors. Was there not a strong case for giving chemists the right to "counter prescribe" for the simple needs of N.H.S. patients? MR. WRIGHT'S answer was that it was his first encounter with the idea which, whatever its attractions, had no chance of gaining acceptance. A real problem lay in the mile limit, which had now become irrelevant to actual conditions. The N.P.U. had approached the British Medical Association on at least four occasions, he told another questioner, to try and persuade the doctors to relinquish rural-area dispensing, but the Association's attitude was always "what we have we hold." To MR. BULL, Luton, he said that patients often had the choice of "contracting out" of dispensing by the doctor. The N.P.U. was trying to secure publication of a form that would show the patient he could have his prescriptions dispensed by a pharmacist. In some areas, it had been found that pharmacists themselves desired no change from the present arrangements. In others, doctors were finding it increasingly difficult to get dispensers.

One member asserted that the problem, far from becoming less, was becoming more acute. Mr. Wright's reply was that if abuses were known to members, such as patients being asked to sign forms agreeing to have their medicines from the doctor's surgery, they should be made known at N.P.U. headquarters, where action could be taken to correct them.

SCIENCE IN SOVIET RUSSIA Address to students of School of Pharmacy, University of London

PRESIDING at the inaugural sessional meeting of the School of Pharmacy, University of London, on October 12, SIR HARRY JEPHCOTT (chairman of the board of governors) said the occasion was the first sessional opening held with the new building complete in all respects.

The report of the Dean (PROFESSOR W. H. LINNELL) said that the new "freshers" could regard themselves very much as the "chosen few," being forty-eight selected from over 400 applicants. The problem of the fresher was how to allocate time between formal studies and other activities. They had to congratulate one student (R. J. Hemingway) on having solved the problem by coming second in the Amateur Swimming Association's 220-yd, breaststroke championship at the University Athletic Union's Cardiff meeting, while gaining a First-class Honours degree and becoming a research student. The Dean congratulated Dr. Fairbairn on having become a Professor during the year.

The previous session, he said, had been a particularly successful one for the school. The number of students had increased to 204, and that placed an increasing burden on the staff, since the building had been designed for 144 undergraduates and forty post-graduate students.

The inaugural address was given by PROFESSOR M. STACEY, F.R.S. (Mason professor and head of the chemistry department, Birmingham University), his subject being "Some Impressions of Russian Science and Technology." After mentioning that among his best friends were many in the pharmaceutical industry, Professor Stacey said that at the moment he was, though a good Conservative, "very much pro-

An Illuminated Address

The address by the guest speaker, plus the tea interval, separated the sec-tions on "N.P.U. Matters" and on "N.H.S. Matters." The speaker was MR. A. D. CHARTERS (British Lighting Council) and his subject "Shop Light-ing." Mr. Charters said that good lighting and prosperous business tended to go hand in hand, though other fac-tors, such as a new shopfront installed at the same time, exerted an influence hard to apportion with any precision. The fact that good lighting, once in-stalled, was rarely removed, was an indication of its advantage. A point to bear in mind was that sources of light should not be visible to the window shopper. The goods themselves should be the focus of attraction. Windows lit by fluorescent tubes, which were capable of providing good all-over illumination if correctly used, often benefited by being supplemented by spot-lights trained on specific objects on display. Mr. Charters demonstrated his point with spotlights of various types, and projected on the screen colour slides illustrating good and bad uses of lighting in shops. After concluding his address, Mr. Charters answered many questions.

Soviet." As a member of a scientific delegation to Russia he had been given a "fantastic" reception, and his visit had been a daily round of morning visits to laboratories and academies of science, afternoon visits to museums and art galleries, and evening visits to ballets and parties. He spoke of the "tremendous earnestness" of Russian scientists. Moscow University's chemis-try department comprised by a scientisty's chemistry department comprised 1,200 undergraduates and several hundred post-graduates. There were twelve full chairs. The five-year course was a more arduous training than even that of Glasgow. It included, for example, much more mathematics. There were no written examinations, students being tested on something more equivalent to the American "quiz" system. The Soviet Academy of Science had, in the speaker's view, a closer grip on research projects than "any other bunch of scientists" in any country. At Lenin-grad there were a large number of graduates engaged in fundamental research. The Soviet Union had a wonderful institute for scientific information and the ability to keep abreast of world literature. That was a problem that had to be faced in Britain. Around 500 graduates were engaged in translating and abstracting, and abstracts were in every Russian scientific library of note within ten days or so of publication. Close liaison existed between scientific and technological people. Apparatus was profuse, and the interest in new instruments and apparatus was enormous. It was true that Russia had few large chemical plants. A vote of thanks to Professor Stacey,

A vote of thanks to Professor Stacey, moved by PROFESSOR FAIRBAIRN and seconded by MR. B. JAQUES, B.Pharm. (president, Students' Union) brought the meeting to a close.

Pharmaceutical Society of Northern Ireland MONTHLY MEETING OF COUNCIL

FFICERS of the Pharmaceutical Society of Northern Ireland were elected at the October meeting of the Society's Council held in Belfast. Mr. Alexander Templeton was elected *President*, Mr. William J. Thornton, *Vice-president*, and Mr. R. M. Watson was re-elected *Treasurer*. MR, J. CALDWELL (the retiring president) thanked



the members of the Council for their support during his year of office, and referred to the help he had received from the secretary (Mr. W. Gorman). He then proposed Mr. Templeton, Garvagh, as president for the coming year, and Mr. D. Moore seconded. The election was unanimous. Mr. Templeton said he was conscious of the high honour that had been conferred on him, and promised to do his best. He then presented Mr. Caldwell with a replica of his badge of office and congratulated him on carrying out his duties so efficiently despite the

Mr. A. Templeton

fact that he had been suffering from ill-health. The auditors (Robert Walsh & Sons) and the solicitors (Cleaver, Fulton & Rankin) were re-appointed.

The following committees were appointed for 1960-61: Education, N. C. Cooper (chairman), W. H. Boyd, W. P. Ewart, H. W. Gamble, J. Kerr, G. E. McIlhagger, A. Templeton, W. J. Thornton, Professor Wade, Dr. Bacon; Ethical, J. Kerr (chairman), W. H. Boyd, J. Caldwell, N. C. Cooper, J. Gordon, W. T. Hunter, W. S. Hall, D. Moore, A. Templeton, W. J. Thornton; Finance, D. Moore (chairman), W. H. Boyd, H. G. Campbell, W. P. Ewart, J. Gordon, W. C. Tate, A. Templeton, W. J. Thornton, R. M. Watson, F. R. Moore; House, W. S. Hall (chairman), J. Caldwell, S. E. Campbell, J. Kerr, G. E. McIlhagger, P. R. W. Shinner, A. Templeton, W. J. Thornton, R. M. Watson, Dr. Bacon; Law, J. Gordon (chairman), H. G. Campbell, N. C. Cooper, H. W. Gamble, W. T. Hunter, D. Moore, H. F. Moore, W. C. Tate, A. Templeton, W. J. Thornton.

MR. H. W. GAMBLE, who was welcomed back to the Council after a period of illness, raised the question of amendments to the Pharmacy Acts and how they would affect the Society. Under the Acts any fines imposed in court were divided between the Government and the Society. A third went to the Government and two-thirds to the Society. He believed those sections had been repealed, and since the new legislation no money had come in for some time from that source. As the expenses of running the Society were getting greater he suggested that the Ministry should be asked if they would be prepared to grant something in lieu. "Perhaps they would grant us a greater proportion of the licensing fees," he said. Mr. Gorman was asked to examine the situation.

New Poisons List

MR. BOYD asked if there had been any further progress with the list of new poisons in the schedule. MR. MCILHAG-GER said the list was near completion, and would soon be in the hands of the secretary. MR. BOYD said he had been discussing the matter with other members, and many were not clear on the changes in the schedule and needed their memories refreshed on what it actually entailed. It would be worth while circularising members with the various changes. The new PRESIDENT agreed with the proposal to circularise members with instructions about the new schedules. Some older members were experiencing difficulty.

Mr. Gamble was appointed to the Joint Formulary Committee which was being reconstituted to start work on the next British National Formulary. Mr. James Acheson was appointed to the Statutory Committee in succession to Mr. R. Gibson, who had resigned after more than ten years' service.

The Council accepted with thanks the gift of a copy of the Pharmacopæia Londinensis, published in 1861, for the library. The donor was Dr. W. Honeyman.

Examiners' Reports

The Council discussed the reports of the examiners for the June examinations. The following were some of the comments made by the examiners :---

Botany: In the theory paper insufficient care was still given to writing relevant answers. The mere appearance of the name of a type in a question was apparently regarded as an invitation to write down everything that had been learned, whether it was significant to the question or not. Deficiencies in answers to the essay question on bacteria indicated a narrowness of outlook and lack of appreciation of the wider significance of what students were taught which seemed inadmissable in pharmaceutical students. In the practical paper, all candidates showed a good grasp of anatomy and floral structures, but their approach to the other specimens given to them was obviously rigidly confined by their training in previous practical classes, since few were able to make straightforward elementary observations on the morphology and general characteristics of such specimens as a piece of rosemary or artemisia stem.

Zoology: Of thirty-three candidates, five failed to reach 50 per cent. in the theory, and twelve were below that figure in the practical section. Theory results, while quite good, suggested that the increased syllabus was at present proving a little indigestible—a greater range of knowledge was apparent, but often inaccurately remembered. That would probably adjust itself with time and practice.

Chemistry: All those previously referred in the subject were successful, the improvement in practical work being particularly noticeable. Of those re-sitting the whole examination 40 per cent, passed in chemistry. Failures were markedly weak in theoretical work. Of the old syllabus candidates, 54 per cent. of those taking the whole examination were successful. There was, however, a weakness in practical work, and in quantitative work the degree of accuracy obtained was not high. Errors in calculation were prevalent and many of the determinations had to be recalculated. The general impression was that the students needed more individual teaching in laboratory work, and that could only be achieved by an adequate proportion of teaching staff to students. Theoretical work was well done on the whole, with a few reaching a high standard.

Physics: As expected the introduction of the new syllabus had not depreciated the standard of answering, and the percentage of failures was virtually unchanged. There seemed to be more interest in the subject, and in future years that could be reflected in a higher standard of answering.

Part II Pharmaceutics: With the exception of one student, who produced most praiseworthy papers, the quality of work in both theoretical and practical examinations was much below the level demanded at the qualifying stage. Of fifteen first entries, three passed completely, eight failed the whole subject, and four failed the theory only. There were thirty-eight re-entries, and of those nine passed the whole subject, fifteen failed the whole subject, five failed theory and nine failed practical. In the theory examination candidates, in general, failed to answer questions as set, including much irrelevant matter. In many cases it was difficult to justify the awards of any marks at all. A number of scripts were almost illegible and the mis-spelling of commonly used words occurred all too frequently. There was strong evidence that most candidates lacked knowledge of basic physico-chemical principles underlying pharmaceutical processes. Even in the case of those candidates passing the examination it was apparent that little reading of the subject beyond lecture notes was carried out. In practical work there was also room for great improvement. Calculation sheets often failed to show clearly and concisely the quantities of material used and the calculations involved in arriving at those quantities. Students' attention needed to be drawn to the need to avoid extravagant use of Dangcrous Drugs and of expensive materials. The presentation of dispensed medicines was generally of a low standard. Few students had the ability to wrap a preparation neatly, and the majority ignored the instruction to make their products identifiable by placing their name on the outer wrapper of the container as well as on the label itself. The labelling of sterilised preparations needed urgent attention, as regards both neatness and detail. Mathematical errors were also frequent, and automatically led to no marks being awarded. There were many instances of preparations being incorrectly labelled. Students should realise that the quality of a product was checked wherever possible, and if weights did not conform, loss of marks was inevitable. Inspection of practical books revealed a low standard of recording and great improvement in that sphere was needed.

In the Part II, Part A Dispensing Practical examination seven out of ten candidates were successful. There was evidence of greater competence than in the previous group of students, and standards should improve in future.

Forensic Pharmacy: There were sixty-one entrants, of whom thirty-eight passed. Some surprising errors of fact were noted in answers to a question dealing with the storage of poisons.

Pharmacoguosy, Final Part II (old regulations): In written and practical examinations there were a few good papers but the general standard was rather low, and it was obvious that some aspects had been neglected. In the written examination too many candidates obtained good marks in one or two questions only, the remainder of their papers being sketchy. Some candidates' answers were badly presented—too often information not asked for was given and important details were omitted. *Part II A* (new regulations): The standard of work was good, and clearly most candidates were well prepared. In the practical examination, the microscopical section was the least well done. More attention could have been paid to accuracy of drawing and labelling.

Pharmaceutical Chemistry Part II (old syllabus):—44 per cent, of candidates passed. There was a general weakness throughout. From a cross-section of written papers it was clear that the work of the course had been well covered,

but it was also obvious that some candidates had put too little effort into the work and that others might be better employed in some other occupation. In the practical examination it was noted that most candidates weighed out much more of the substance to be assayed—usually five times the amount—made up to a definite volume and took an aliquot part. The qualitative work of the weak candidates was very poor, indicating that more time and perhaps more supervision was needed.

Pharmaceutical Chemistry I (new syllabus): 80 per cent. of candidates were successful, and that success pointed to the wisdom of spreading the work over the longer period. All candidates reached a satisfactory standard in the theory paper, the failures being due to weakness in practical work. There was a marked tendency in written work to avoid questions on physical chemistry. In the practical examination the quantitative work on the whole was well done, but there was need for greater accuracy, both in weighing and in titration. Generally speaking there was room for considerable improvement in qualitative analyses. Too many candidates based their erroneous results on a few unreliable colour reactions. Except in a few cases colour tests as a means of identification should be forgotten.

" A Strong Indictment "

Commenting on the examiners' remarks on part II of the Final Qualifying examination, MR. D. MOORE said he thought the criticism of the candidates' inability to wrap preparations neatly was a strong indictment, especially since those were students who had already served their apprenticeship. Mr. CALDWELL agreed, saying that over the past five years he had been amazed at how badly apprentices tackled that elementary task. MR. W. H. BOYD said he used bags, and found it a far better and more hygienic method of wrapping. Few places now bothered about wrapping bottles-bags were provided. He thought the art of wrapping was a thing of the past, and he would not "shed any tears." MR, H, G, CAMPBELL said he thought that good wrapping was much neater than a bag, and that it was an important point with customers. MR. CALDWELL referred to the mis-spellings of some candidates, and said he had been amazed at how mistakes were made with such common words as "clothes" spelt "close." MR. G. E. McIL-HAGGER said classes generally were too big, which meant that pupils and teachers were handicapped. He suggested that a synopsis of the report should be sent to all teachers.

Apologies were received from Professor O. L. Wade, Dr.R. G. R. Bacon, Messrs. S. E. Campbell, W. P. Ewart,W. S. Hall, H. F. Moore, Walter C. Tate, W. J. Thornton.Mr. T. Hunter, a new member of the Council, was wel-

Mr. T. Hunter, a new member of the Council, was welcomed by the president.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

The Change to Metric

SIR,—The reluctance of the British to accept the metric system, as shown once more by Mr. J. S. Clarke, seems to us foreigners very odd. I must say that already, forty-seven years ago, when first in touch with your system of weights and measures, I would not have thought it possible for it to live as long. What about your two different ounces: the pharmaceutical of 480 grains, the avoirdupois of 437-5 grains and then 16 oz. to a pound, 14 lb. to a stone, 8 stones to a hundredweight, 20 cwt. to a ton—six different factors to pass from one unit to the next one! Dear Mr. Clarke, think that the metric system has only one factor: "10" and makes all reckoning so much easier. Get used to it, and never more will you want to go back to the preposterous actual system.

J. J. BLOCH, Pharm.Ch.,Dr.ès Sc., Vevey, Switzerland

The Pharmacist's Dilemma

SIR,—Several of your recent correspondents have the same basic problem —whether on the subject of professional status, N.H.S. remuneration or the imposition of the metric system. Professional men require a broad basic education, and in addition an apprenticeship-trained man acquires an understanding of human problems. Our difficulty is mainly in reaching understanding and compromise with men who have acquired some degree of authority by following a specialised and confined career, "one-track" minds. Politicians in particular, whether local amateurs or Cabinet ministers, require no broad general examination before exercising their authority. Refusal to compromise and a fanatical zeal will today put a man into power more quickly than anything else. University professors and statesmen alike think that a complex human problem may be solved by a simple formula. That may work in a lecture room or a laboratory, but the retail pharmacist cannot treat his customers like experimental animals and university graduates at the same time.

ERNEST A. DARLEY, London, N.1



For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON" TELEPHONE CENTRAL 6565

Side Effects of Unrestricted Trade

APPROXIMATELY half the agreements that were registered when the Restrictive Practices Act took effect are no longer in existence. Most of them have been abandoned or purged, some condemned. Reviewed from any angle that is a remarkable effect of the legislation. Of the remaining agreements, no doubt a majority will be abandoned or modified when they are brought before the Restrictive Practices Court. Indeed, there is possibly a hard core of only around one hundred cases in which battle will be joined in that court.

However, that initial result may not be the most important outcome of the Act, for there has not yet been time enough, in most industries in which agreements have been abandoned, for substantial changes to become evident to the public at large. Certain of the changes affect what have been considered to be fundamental structures of some industries, and we would reinforce the plea by Mr. William J. Brown (see p. 545) for a full-scale study of the results of the Act. We believe that some of the answers that would emerge from such a detailed investigation as he suggests might well surprise many of those in Parliament who approved the legislation. Much the same careful appraisal ought to be made-and probably its results would be equally educative—of the answers given to the questionnaires issued by the Board of Trade in connection with the inquiry into aspects of resale price maintenance.

If the section of the Act that facilitates resale price maintenance is rescinded, then sooner or later the price war that is bound to break out will have consequences unforeseen by those who approved the amendment. It may be delayed in some trades in which there is (as at present) an increasing demand for goods, but it is inevitable when that demand falls away the situation will quickly deteriorate. The results will be seen in the failure not necessarily of the less efficient distributor, but of the one who is weaker financially. To what extent recent take-over bids are the effect of the Act is difficult to say, but there is a growing feeling that its influence has operated to a greater extent than most protagonists of the legislation are ready to admit.

Mr. Brown's hope that the Government will learn the true reason for price maintenance, namely that cut prices lead to demands for greater profit margins, which must in turn be reflected in higher prices, will be echoed in many pharmaceutical circles. If it is not to be just a hope, all concerned must take steps to ensure that the practical aspects of price maintenance are made as widely known as are some of the unproved theories of those economists who, having had no experience behind the counter, have urged a price free-for-all.

Already that moral has been drawn by Mr. C. C. Green of the Proprietary Articles Trade Association, who pressed it home when he recently addressed a joint meeting of Pharmaceutical Society Branches at Wembley (see C. & D., October 22, p. 509). The anti-maintenance economists have laid great emphasis on the more efficient methods of distribution of the larger organisations. They forget, or ignore, that the greater part of the stocks sold in the "super markets" (the distributors those economists seem to have chiefly in mind) are sold at standard prices, and some at prices well above those asked in the smaller shop. For the operators in question occupy the most expensive mainstreet sites and have heavy running costs to meet. It should be patently obvious to all who think about it that they cannot meet their commitments and make profits by cutting all their prices all the time.

Onward from Galen

FEAR of cats appears to be a relatively common phenomenon. an observation endorsed by a recent B.B.C. radio discussion. The British Medical Journal (August 13) published an article, based on a paper presented to the annual conference of the British Psychological Society, describing the treatment by experimental psychology of a thirty-seven year old married woman who was terrified of cats. At the age of four she had witnessed the drowning of a kitten, since when a phobia had developed and finally reached such magnitude that she was forced to seek mcdical advice and subsequent hospital treatment. Therapy was based upon the theory that neurotic symptoms are learned behaviour patterns, designed to relieve anxiety. Phobia would achieve that aim initially by avoidance of the cause of worry; however, the habit would gradually become so pronounced as to be unadaptive to the situation. Hence, in the case described, the patient would panic at the sight of a cat and be plagued by the thought of meeting one. Doctors decided to apply a technique of "reciprocal inhibition," whereby habits would be retrained to become adaptive patterns of behaviour once more. The method required the patient's full co-operation, and first involved listing, in order of significance, the mental stimuli producing fearreaction (e.g., sight of cats gave violent response, but fur gave milder response). The patient was then encouraged to establish a new response at the weakest end of the fear gradient-she learned to accept fur by being presented with fur-like materials; then to tolerate toy kittens and pictures of cats, and finally to grasp a live kitten. One month after treatment commenced, the patient was allowed to complete her cure at home by retaining the kitten and watching it mature. Seven months later her phobia had completely subsided, and it was concluded that the application of experimental psychology to the case had proved a worthy alternative to the normal process of psychotherapy.

A PHARMACIST'S ANTHOLOGY

TWIXT PESTLE AND PORPHYRY

From "An Episthe containing the strange medical experience of Karshish, the Arab physician" by Robert Browning

H₁S service payeth me a sublimate Blown up his nose to help the ailing eye. Best wait: I reach Jerusalem at morn, There set in order my experiences, Gather what most deserves, and give thee all— Or I might add, Judæa's gum-tragacanth Scales off in purer flakes, shine's clearer-grained, Cracks 'twixt the pestle and the porphyry, In fine exceeds our produce.



"OPEN SHOP"

AN UNSCRIPTED COMMENTARY ON THE SPECIAL PROBLEMS OF THE PHARMACIST IN RETAIL PRACTICE

E. C. TENNER

COPY has reached me of the industrial price list, 1960, of Boots Pure Drug Co., Ltd. Presumably it is sent around to factories. It states: "Boots' organisation offers a unique service to industrial health units...." Under the heading "General Terms and Conditions," discounts to be deducted from retail selling prices for various classes of goods are specified. The class that particularly interests me is "Proprietary Medicines and Proprietary Toilet Articles." All goods by pharmaceutical firms and cosmetic houses other than Messrs, Boots' own make are included. Where makers have special terms, the company can usually supply at the same rate. On lines that are exempt from purchase tax, 10 per cent. discount is allowed from the retail selling prices. On all other items $8\frac{1}{3}$ per cent. discount is allowed from the tax-inclusive retail selling prices. No discount is allowed on insulin, clinic packs of food, Elizabeth Arden and the range of Helena Rubinstein preparations.

Now I have always been assured that Boots profess to observe manufacturers' maintained retail prices. I know, of course, that nurses and doctors are given what is called "professional" discount, but I did not think Messrs. Boots believed in price-cutting generally. Presumably insulin and clinic food prices are inviolate, but what is meant by the exclusion of Arden and Rubinstein preparations from this "industrial" discount ? Are those the only two firms that will not allow their prices to be cut ? Are not (say) Euthymol tooth-paste and Beechams pills to be any longer pricemaintained by their manufacturers ? Are Arden and Rubinstein the only manufacturers who are able to dictate terms to our multiple friends ?

There is another section headed "Pharmacy and Poisons Act, 1933, and Dangerous Drugs Acts" specifying how items affected by those statutes may be purchased, but no warning is included that, should there be any resale of a "listed" poison, the seller must be either an authorised seller of poisons or a listed seller (unless he is a medical or veterinary practitioner). Many of my customers work in factories. I regard it as significant that the cover colour of the company's industrial price list is a bright red. Waved in front of my eyes, it arouses much the same reaction as a red rag waved in front of a bull.

Space for the Label

I should have thought that, by now, manufacturers of proprietary medicines that are poisons would have been aware that space upon their packs ought to be provided for the seller to mark his name and address. The other day I saw a new pack of a widely advertised proprietary poison. It was most inartistically covered over with "blurb." There was no space for my name and address dot, and I had to open out the pack before I could find the Schedule-7 cautionary words. It is the duty of the Pharmaceutical Society to administer the Pharmacy and Poisons Acts, why do they fail to obtain desirable improvements in these proprietary poisons' packs ? Cautionary words on a proprietary poison are often a valuable reminder to the vendor that his " dot " must be affixed to it. A space left for the "dot" would operate similarly, though it is often pleasant to cover up some of the "blurb"! Again, in respect of the Pharmacy and Medicines Act, 1941, also administered by the Pharmaceutical Society of Great Britain, I have noticed that packs of some proprietary medicines must be opened before the formula disclosure can be discovered. We ought to hear more about negotiations between our Society and proprietary medicine manufacturers in protection of our interests as sellers of poisons. If such negotiations have been entered into, we should have been told something about them. If not, the time is surely due for some vigorous action along those lines.

List into " Calculator "

To give it its full name "The N.P.U. Drug and Galenical Price Calculator" has a hearty welcome from me. In many ways it is much more useful than the price list it supersedes. As I have said before, I particularly appreciate the costbasis columns. They do help me a stage further into the metric age. Talking of the metric system (even after the Pharmaceutical Conference) I believe medical students should be taught to express deci-, centi-, and milli- grammes only as decimal fractions of grammes, and that where less than 1 gm. is to be written, the decimal point should be preceded by a figure naught. Thus, point 1 mgm. would be written unmistakably G 0'0001 or 250 mgm. G 0'250. I undertake vitally important searches for decimal points in badly written prescriptions so often that I am convinced that my "point" is an important and practical one. Years ago I was taught that way of writing metric quantities. I believe that, if doctors were similarly instructed, I should not see so many dangerously written prescriptions in the course of a week.

Over the Water

Recently touring for the first time in Eire I was most impressed by the gracious manners of the shopkeepers. There was time for conversation with each customer, and it passed mostly in the time while one's purchase, however small, was carefully wrapped in paper and tied with string. I found it most healthy and refreshing to live for a few weeks in the quieter tempo of the Irish philosophy: "Time enough." That sort of graciousness has practically disappeared from the cut-throat business of shopkeeping in England. Yet I found that life is difficult for the retail pharmacists in Eire. Chemists' gross profits have been the subject of adverse and, I think, misinformed Press comments. One country chemist told me he did no "human" dispensing at all, but lived mainly on his veterinary practice, all the human dispensing being done by the State-employed dispensary doctor. Later I met a dispensary doctor who told me he wished the State would allow him to give up the dispensing part of his job. He said he had not been trained for it and would rather confine himself to diagnosis and prescribing, etc. In a small town I found two chemists' businesses. I was told that one was shortly closing down. I noticed that both pharmacies had devoted a large proportion of their small display windows to "fashion jewellery." So I came away wondering how long the delightful "time enough" philosophy will be able to last. How long will it be before high-pressure methods have to be adopted in Eire ? The ugly American business methods have destroyed so much that was valuable in traditional retail pharmacy in England, Long may Eire resist them! It took me more than a week to speed up again after my very pleasant Irish relaxation.

Pharmaceutical Society of Ireland DEGREE COURSE DETAILS GIVEN TO ANNUAL MEETING

DETAILS of the proposed degree course for pharmacy were announced by MR. H. P. CORRIGAN (president, Pharmaceutical Society of Ireland) at the Society's annual meeting in Dublin on October 10.

Describing the decision to establish the degree course as "one of the most far-reaching taken this year," the President explained that the Council had adopted the recommendation of the Education Committee to establish such a course. "This decision was the culmination of many years of hard work and many meetings. On behalf of this Committee I express thanks to local associations and to individual members who wrote giving views on the proposed course and on ancillary matters, such as apprenticeship. It is interesting to note that the decision to shorten the period of apprenticeship was accepted but some protested that it is futile to raise the standard of education when we are denied the bulk of the compounding and dispensing of medicines. It is for this reason that the Council wants to raise pharmaceutical standards; it wants to raise the status of the pharmacist and provide him with greater scope and with more outlets.

"I gave you an outline of the proposed course last year. Briefly, the aim is three years at college followed by one year's practical training in a pharmacy. The Society's representatives met the authorities of University College, Dublin, and were accorded a most courteous reception. It was found possible to evolve a scheme which requires the student to devote the first year to the study of chemistry, physics and biology at U.C.D. Credit for this year is gained by passing an examination equivalent to first science. The second and third years will be devoted mainly to professional subjects (pharmaceutical chemistry, pharmacology, pharmacognosy, pharmaceutics, etc.) which will be taught for the most part at the College of Pharmacy. At the conclusion of the third year the student takes his degree examination, which will entitle him to the degree of B.Sc.(Pharm.). The graduate must next spend at least a year undergoing practical training in a pharmacy before he sits for the Licence examination in forensic medicine, passing, he becomes eligible for registration as a pharmaceutical chemist."

Advantages of the Scheme

Although the apprenticeship period was being reduced, the student commencing the period of practical training would have been taught already how to compound and dispense and so would arrive at the pharmacy with a good foundation. The cost of an extra year at College would be offset by the attainment of salary-earning capacity a year sooner than under the present system. Furthermore, the student would go straight from school to the University and would complete the academic section of the course before starting the practical section—in other words, he would suffer no interruption in his studies. He would also become eligible for University and county council scholarships, thereby removing a disability that had previously deprived pharmacy of brilliant potential students.

When the Council had been convinced that the scheme could be implemented they had submitted it, in May, to the Minister for Health for approval. The Minister had informed the Council that the scheme was being examined by his Department and the Departments of Finance and Education. He was also seeking the views of the other Ministers. The Council had hoped for a decision before College reopened that month (October), but now they hoped for a reply in the near future.

"We are convinced that the changeover will result in a bigger intake of students. We know, in fact, of students who are holding back until next year in the hope that they will be able to follow the degree course. We are also aware that students living in the Cork and Galway zones will seek recognition of lectures taken out at U.C.C. and U.C.G. respectively, but this is only one of the many problems examined by the Education Committee and by the Council," said the President.

Minister's Letter

THE REGISTRAR (Mr. J. G. Coleman) then intervened to read a letter that Mr. F. Loughman, T.D. (president-elect) had received from the Minister for Health (Mr. S. Mac-Entee) in regard to the proposed course. Dated September 27, it stated: "I have received your letter of 19th inst." asking me to meet representatives of the Pharmaceutical Society of Ireland to discuss the proposed arrangement for the training of pharmaceutical chemists at University College, Dublin. The position is that the objections to these arrangements, as conveyed by my Department to the Society, were based on considerations advanced by the Minister for Education who was concerned with the proposal in its relationship to University education. Recently the Minister for Education, following further consideration of the matter, has let me know that he has withdrawn his objections, and in the circumstances I have agreed in principle not to withhold my approval. Provided therefore the regulations made by the Society to implement the proposals are not ultra vires its statutory power, and provided also that the Minister for Finance indicates his agreement to the proposals (the finance implications of which he is at the moment considering), you may take it that they will receive my formal approval. While therefore I would be glad to meet a deputation from the Society, if this were necessary, I suggest that in the circumstances which I have mentioned it would be best to await further developments.'

MR. LOUGHMAN said it would seem that in the near future the Society could anticipate that the regulations would be approved.

MR. T. B. O'SULLIVAN said the Council should congratulate Mr. Corrigan and the registrar on the "magnificent" letter they had sent to the Minister setting out the Council's views on the matter.

MR. CORRIGAN went on to say that discussions which the Council had had with the Apothecaries' Hall, Dublin [on the proposed Pharmacy Amendment Bill] had resulted in agreement between that body and the Society. Both sent the Minister for Health the text of the agreement measure, and that move, coupled with the Minister's statement in the Dail last May, made the Council optimistic that the "long overdue" Bill would reach the House during the coming season. Mr. Corrigan paid tribute to the representatives of both sides for the manner in which differences were "ironed out."

The president reported that during the year the Society had lost, through death, twenty-five pharmaceutical chemists, two dispensing chemists and druggists; five registered druggists, and two assistants. Among them were two former presidents (Mr. Denis Nugent and Mr. Joseph Costello) and a former member of the Council (Mr. Joseph Gorry). Between October 1, 1959, and October 1, 1960, eighty-one new licentiates were registered, including twenty-one who qualified via the Apothecaries' Hall; thirteen registered druggists, and thirteen pharmaceutical assistants. During the same period forty-eight names were added to the pharmaceutical assistants' preliminary register, and thirty-one to the pharmaceutical chemists' preliminary register. Preliminary registrations were made principally after the results of the June examinations, and from inquiries received it seemed probable that there would be more than the thirtyone students who were enrolled for the science course. Forty-one students had returned to the College for the pharmacy course. The new course for assistants, introduced in 1958, demanded attendance at a course of lectures on completion of apprenticeship. The first set of lectures would be held from March to June, 1961, and the second set was scheduled to commence next October. There were now 122 young people serving their apprenticeships under the new assistant regulations.

Mr. Corrigan explained that in March the Society held the last Licence examination under the "old" pre-1952 regulations, concluding the extension period. Between July 1, 1958, the original closing date for the examination, and March 31, ninety-six candidates succeeded in qualifying. Inevitably there were a few hard-luck cases, but it would be generally agreed that the Council made every effort within reason "to shut the door as gently as possible." Those who were unlucky might still qualify by availing of the provisions of the 1952 regulations.

Recalling that for many years the Council had urged pharmacists to participate in local and national affairs, the president said that in the sphere of health the pharmacist's participation seeemed obvious. Nevertheless it had proved difficult to secure the nomination of pharmaceutical chemists on local health committees. He was glad that many local pharmaceutical associations had made the effort to have members appointed, and that one at least had been appointed, Mr. K. Matthews, to the Louth consultative health committee.

"During the year Mr. O'Briain terminated his services as inspector and liajson officer. Mr. O'Briain left at his own request and we were sorry to lose him. For nearly five years he carried out a difficult task with tact and impartiality and did much to further good relations in pharmacy.

It is not possible to deal with the activities of all the Committees working for pharmacy but I should like to thank all those who sacrificed time and energy so generously. I must refer to some of them: The Post-graduate Education Committee continues to enhance its reputation and the greatest credit is due to this band of enthusiastic workers. Another committee is unique, the Gardens Committee. A group of pharmacists and students decided to beautify the College grounds and devoted many fine evenings to hard manual work. This is an example of literally taking one's coat off to do a job. To relieve the Society of the expense of new shrubs and plants, they ran a raffle and collected nearly £200. We are under a debt of grati-tude to these men. The Benevolent Fund Dance Committee has been working so efficiently and unobtrusively for so long that we might be tempted to think that it is no trouble. This year saw the celebration of the twenty-first anniversary of its existence and so I think it is proper that we should place on record our deep appreciation of the wonderful work they have accomplished while they were growing to maturity."

College of Pharmacy Fund

Dealing with the Irish College of Pharmacy Fund, Mr. Corrigan recalled that last year he had explained why the Society was contributing £1,050 towards it, and mentioned that the committee of management was directing its appeal to licentiates, manufacturers, and to all whose products were normally channelled through pharmacies. They had received contributions from some firms; others had indicated that they intended to contribute, but, for reasons connected with their own financial years, had deferred making a donation until later. Support had been forthcoming from the Association of Irish Pharmaceutical Importers. The following had already contributed :- Antigen, Ltd. (£262 10s.); Chesebrough-Pond's, Ltd. (£10); Glycerin, Ltd. (£10 10s.); Horlicks, Ltd. (£5 5s.); May Roberts (Ireland), Ltd. (£105 to be repeated each year for four years); Pharmaceutical Society of Ireland (£1,050 to be repeated each year for four years); Sr. Laura's Food (£10 10s.); Solport Brothers, Ltd. (£5); Irish Pharmaceutical and Medical Representatives' Association (£10); Squibb (Ireland), Ltd. (£250); John Steedman & Co., Ltd. (£2 2s.); F. W. Hampshire & Co., Ltd. (£2 2s.); Helena Rubenstein (Eire), Ltd. (£5 5s.); Chas. H. Phillips Chemical Co., Ltd. (£10 10s.); Max Factor Hollywood and London (Sales), Ltd. (£5 5s.); Lentheric, Ltd (£3); Riker Laboratories, Ltd. (£10 10s.) Lever Brothers (Ireland), Ltd., coupled with D. & W Gibbs, Ltd. (£50); Smith Kline & French Laboratories, Ltd. (£100); Rexall Drug Co., Ltd., (£10 10s.); Edward Taylor. Ltd. (£5 5s.); Geigy Pharmaceutical Co., Ltd. (£157 10s.), In addition, the following had asked how the following sums should be applied: CIBA Laboratories, Ltd. (£100) Beecham (Sales), Ltd. (£200); Aspro-Nicholas, Ltd. (£525 in instalments of £105 per annum), "To each and everyone I say thanks on your behalf. Many demands are made on those companies, and the Committee appreciate how difficult it is for a company to meet those demands. Or your behalf I express the gratitude of Irish pharmacy for the generous support given, and for the encouraging letters received," the president added.

Committee Re-elected

Mr. Corrigan announced that as there was no ballot he would formally declare the following seven members of the Council re-elected for a period of three years: Messrs M. Costello, J. P. O'Donnell, F. Loughman, J. J. O'Regan T. R. Miller, M. F. Broderick and R. J. Power.

Proposing the adoption of the president's report, MR. J. E Fox, Athlone, said Mr. Corrigan had given members s detailed account of the Society's activities during the year It was gratifying to note the "tremendous support" received from the various ethical and manufacturing firms for the College of Pharmacy Fund. Members were happy to learn of the successful outcome of the long discussions that had taken place with the Apothecaries' Hall, and were satisfied with the work the Council had put into the case. He was sure that the proposals regarding the degree course would be welcomed by most members. While some might have different ideas regarding the details, he thought all would agree that the course would enhance the status of pharmacy, and that in the long run they would gain a lot from it. Concluding, Mr. Fox paid "a deserved tribute" to the outgoing president for his "solid" work as a member of the Council and as a worthy president.

Seconding, MR. J. P. MCCAUL, Dublin, said he was glac that agreement had been reached with the Apothecaries Hall, MR. R. C. O'HIGGINS, Dublin, joined in congratulat ing the outgoing president on the splendid results achieved both in regard to the negotiations with the Apothecaries Hall and on the new Educational Bill. He added that he would like the terms of the agreement with the Hall to be made available to members. Urging that more publicity should be given to the Council's activities, and to its monthly deliberations, Mr. O'Higgins said that that would encourage members to take a greater interest in the worl being performed by the Council and enable members to take a more active interest in pharmacy. Of the first Irish Pharmacy Week he said that while it was not a brillian success it was a moderately successful venture, and while members hoped that next year's fixture would be an ever greater success they would like to see more people take ar active interest in it. Mr. O'Higgins said he got the impression that pharmacists were afraid to express their views a the annual meetings. He thought there was some unfounded fear that if they expressed criticism of the work of the Council it might react to their disadvantage. That unneces sary fear should be dispelled.

MR. D. F. WALSH agreed that some members were afraic to express criticism of the Council and regarded it as a type of exclusive club whose activities they should be slow to criticise. There was a lot of nonsense spoken along those lines, such apprehensions being entirely without foundation He asked that in future the Irish Pharmaceutical and Medical Representatives' Association should be officially acquainted with the activities of the Council the same as other pharmaceutical groups. They had not been consulted about the Pharmacy Act or the new education programme, although they were particularly interested in matters affecting education of pharmacists. Stating that he was glad to hear the president pay tribute to the work of the Postgraduate Committee, Mr. Walsh said he was glad the Council had agreed to meet the Committee with a view to arriving at an amicable agreement regarding certain matters that had caused some misunderstanding. He hoped that the new Pharmacy Bill would be given an early reading in the Dail, and said he was pleased to hear of the many subscriptions that had been made to the Pharmacy Trust Fund. He thought an even better response would be forthcoming if more publicity were given to the matter. Welcoming the co-option during the year of a hospital pharmacist to the Council, he expressed the hope that the Council would eventually be completely representative of all pharmaceutical groups.

THE REGISTRAR assured Mr. Walsh that his organisation would be consulted in future in all matters relating to pharmacy.

THE PRESIDENT explained that under the Society's charter of 1791 the members of the Apothecaries' Hall were entitled to engage in the practice of medicine, surgery and pharmacy. The 1875 charter of the Society entitled members to keep open shop for the sale of poisons and the compounding of medical prescriptions. Under the Pharmacy Act apothecaries could register with the Society on payment of a stipulated fee, but the Society was seeking under the new Act to have apothecaries removed from the register of pharmaceutical chemists. They had succeeded in doing that, but that was all. When the new Act was implemented an apothecary could still carry on as such, but not as a pharmaceutical chemist. After a specified date they would no longer be able to register as pharmaceutical chemists, but would be entitled to engage in compounding under the title of medical hall.

MR. T. R. MILLER said that as the law stood a doctor could engage in all matters appertaining to medicine and the Society had no power to prevent him from keeping open shop if he wanted to. At present on payment of a fee of $\pounds 21$ he was entitled to call himself an L.P.S.I. Under the new Act he would no longer be able to register as such but that could not prevent him from keeping an open shop.

Competition from Apothecaries?

Mr. E. BROWNE said that apart from a change in name it appeared that an apothecary under the new Act would still be able to engage in retail pharmacy. Although he would not be allowed to call himself a pharmaceutical chemist he would be allowed to work as one. That was not of much advantage to members of the Society and it looked as if in future a group of apothecaries would be engaged in competition against pharmaceutical chemists.

MR. R. PURCELL asked if, under the new Act, one doctor would be entitled to make up another doctor's prescription? MR. D. J. KENNELLY said that long before pharmaceutical chemists came into official existence apothecaries had the right to compound their own and other doctors' prescriptions. The Society could not interfere with the original charter of apothecaries, but under the new Pharmacy Act apothecaries would be prevented from registering as pharmaceutical chemists. It would be impossible for the Society to take away the rights to compound medicines enjoyed by apothecaries under their ancient charter. It would be interfering with a right they had had before the Pharmaceutical Society came into being.

In reply to Mr. Purcell, THE PRESIDENT said that under the Pharmacy Act a medical doctor eould not compound another doctor's prescription.

MR. J. K. McGARRY said it appeared that when apothecaries were removed from the Society's register under the new Act they would still be able to come in a "back-door." They would be able to open medical halls instead of pharmacies and from the practical point of view the new position would be little better than the existing one. It was immaterial whether apothecary shops were called pharmacies or medical halls if they were allowed to compete with members of the Society. THE PRESIDENT said he took a totally different view.

MR. G. C. O'NEILL said that while the new Act would not be evcrything pharmacists wanted, it was a step in the right direction. He was convinced that the numbers were getting so small that apothecaries would not be able to procure pharmaceutical chemists. MR. WALSH said he also believed apothecaries would fail through lack of staff.

The president's report was adopted unanimously.

Treasurer's' Report

The report of the honorary treasurer (Mr. M. Costello) revealed a deficiency for the year of £3,389 18s. 9d. MR. COSTELLO said he thought the time was coming when the financing of the full educational course would impose too great a strain on the Society's finances. Included in the deficit was a sum of £1,050 that had been given by the Society to the Pharmaceutical Trust Fund, while the schools courses had shown a loss of £878, compared with a profit of £510 in 1959. Having quoted other details of the account, Mr. Costello said that while the overall loss was not much greater than the previous year, the position was not a healthy one. The Council were hoping that with the proposed change in the educational course some of the financial burden at present borne by the Society would be taken over by the University. Education was a State service, and the state of the Society's accounts at present should help to convince the Department of the urgency of giving the Society what they were seeking under the Pharmacy Bill. Mr. Costello said that £958 10s, had been disbursed from the Benevolent Fund during the year, compared with £647 the previous year, while the proceeds from dances and subscriptions totalled £823. Having thanked the various committees who had raised that sum he appealed to any members who could afford it to include a sum additional to their membership subscription for the Benevolent Fund. MR. R. PURCELL proposed the adoption of the report, and that was agreed.

MR. LYALL SMITH asked what hope there was of reducing the deficiency next year? Apart from the hope of receiving legislative help he would like to know what steps the Council proposed taking. The chief problem was that not all licentiates were members. One way of easing the position might be to encourage licentiates to become members of the Society. He also suggested that at the back of the Society's Calendar should be included a bequest form which some members might be inclined to fill in for the benefit of pharmacy. MR. COSTELLO said that in addition to contributing £1,050 to the Trust Fund the Society had written off £981 under the heading of depreciation, so that what was lost during the year in hard cash was what had been lost on the schools. At present there were about 800 pharmacists "outside the fold," so that when the new Pharmacy Bill was enacted the Society would have that many more £4 4s. subscriptions. With the loss on the science course being borne by the University under the new Bill he hoped that in five years' time the Society would have a credit balance.

Proposing a vote of thanks to Mr. Corrigan for presiding, MR. M. POWER said that Mr. Corrigan had given virtually all his time and energy to the affairs of the Society during the past twelve months. MR. A. C. HENNESSY, seconding, said that Mr. Corrigan had carried the banner highly and was extremely well thought of and spoken of in all parts of the country.

On the motion of MR. P. A. BRADY, a vote of thanks was passed to the registrar and staff for their work on behalf of the Society during the year.

MONTHLY MEETING OF COUNCIL

(Concluded from The CHEMIST AND DRUGGIST,

October 22, p. 504)

WHEN the report of the committee of inquiry appointed to examine the proposals regarding the possibility of forming a representative pharmaceutical association, with a view to improving liaison among the various pharmaceutical groups had been read to the Council, MR. MILLER said they had received something of a concrete nature on which to build such an association. The most encouraging aspect was that the social group were prepared to hand over their funds to help establish such an association and secure a headquarters. On the motion of the president, it was agreed to allow the commission to hold a general meeting of members of the Society in the College of Pharmacy at 8 p.m. on November 18 when the progress made by the investigating committee would be reported in detail. It was agreed to circularise copies of the commission's report to members.

Stating that in recent weeks Ireland had been accorded a great honour through the appointment of Mr. Frederick Boland as president of the United Nations Organisation, THE PRESIDENT proposed that the Council should offer him their congratulations. That was agreed.

Dr. Edwin Chatt-Ramsey having submitted 'an L.A.H. certificate, was granted registration as a pharmaceutical chemist.

The following changes of address were noted:—Messrs. P. J. Leahy, M.P.S.I., to 1 Merton Drive, Ranelagh, Dublin; O. Flannery, M.P.S.I., to "The Mount," Tubbercurry, Sligo; R. McLoughlin, M.P.S.I., to 131 Oliver Plunkett Road, Mounttown, co. Dublin; D. O'Shea, L.P.S.I., to P.O. Box 1681, Accra, Ghana.

The licence certificates of Nora Mary O'Sullivan, Arthur Kennedy, and Michael O'Gorman, were signed and sealed.

The following were nominated for registration in (a) Pharmaceutical Chemists' Preliminary Register:-Mary

Ann O'Callaghan, Thomas F. Leahy, James J. Pallas, Donal A. McGoey, Cait Breatnach, Fintan M. Molloy, Mary P. Perry, John J. Kingston, Robert Carvill, Thomas Kelly, John B, O'Byrne, Peter Davey, Blathnaid A. Hughes, Margaret Plunkett, William J. Butler, Patrick S. Stokes, James McCormick; (b) Pharmaceutical Assistants' Preliminary Register:—Patrick J. Sisk, Christopher J. Clarkin, Elinor McCormack, John J. Collins, Mary C. Crowley, Richard Wilson, Maire Shcehan, Geraldine B. Gates, Augustine M. Williams, Mary E. Power, Mary M. Donovan, Maureen Lang, Mary Dalton, Edmund B. Stack, Esther Blake, Kieran Fitzgerald.

Marriage certificates having been submitted the following were granted changes of name in the registers:— Mrs. Mary Burke (née Webb), L.P.S.I., 25 South Street, New Ross, co. Wexford; Mrs. Bridget Fitzgerald (née Murphy), Barraduff, Headford, co. Kerry.

It was agreed that the following should be elected to membership:—Miss Joan Madden, M.P.S.I.; Mrs. T. Casey, M.P.S.I.; Mr. J. P. Fehily, M.P.S.I.; Mr. M. P. McGoldrick, M.P.S.I.; Mr. J. P. McCormack, M.P.S.I.; Mr. J. D. Dillon, M.P.S.I.; Mr. J. Haire, M.P.S.I. and Miss P. McGuinness, M.P.S.I.

The following were nominated for membership:--Miss D. Tobin, The Chalet, Monkstown Avenue, co. Dublin; and Messrs. J. Kennedy, Main Street, Portlaoise, co. Leix; R. McLoughlin, 131 Oliver Plunkett Road, Mounttown, co. Dublin; T. Lyons, "Padua," Highfield Lawn, Model Farm Road, Cork.

Apologies for absence were received from Miss L. Cunniffe and Mr. J. J. O'Regan. Present were Messrs. G. C. O'Neill, M. Costello, K. Banks, P. A. Brady, M. F. Broderick, H. P. Corrigan. C. J. Cremen, J. Gleeson, D. J. Kennelly, T. R. Miller, T. B. O'Sullivan, M. Power, R. J. Power, F. J. Robinson and R. J. Semple.

At a meeting of the Benevolent Fund which followed, grants totalling £72 were passed for payment.

NEW INTERESTS FOR OLD

ANYONE who has grown a colony of bacteria or moulds on a nutrient agar plate will be familiar with the phenomenon of self-limiting growth. The colonies newly seeded thrive for a time, then fade and shrink, and unless they are subcultured they die. Arnold Toynbee, in his "Study of History" traces a similar development in human civilisations. His thesis is that civilisations arise and grow in response to the challenge of environment. Hard physical conditions prompted the Athenians to cultivate the olive and, as a consequence, to enter into export trade in order to exchange oil for grain. Thus a new civilisation developed through commerce.

Only when life becomes easy and the challenge is lost does dissolution set in and the civilisation become effete. It was appreciation of that truth which prompted Amos the prophet to denounce those of his generation who were at ease in Zion . . . that lie on beds of ivory and stretch themselves on couches." It would be unfair to attribute to pharmacists a life of luxurious indolence, but one wonders at times if there is not a little too much ease in Zion. Allowing for the jaundice of the descending years which is apt to affect the middle-aged, there seems to be a lack of enthusiasm and endeavour on the part of some hospital pharmacists. Too few have been willing to take responsibility and exercise leadership in branch affairs: too few have given up time to producing technical papers for branch meetings of the Pharmaceutical Society or the Guild of Public Pharmacists. A number of factors could be cited as responsible for that state of affairs. Full employment is probably the most important of them. In the days when a vacancy advertisement for a post in the hospital service brought literally dozens of replies, men who were keen felt that they had a personal stake in "making something of the profession." Today there is little interest in the hospital service because every newly qualified pharmacist knows he can find a job anywhere and at any time. When, however, that independence degenerates into indifference, we enter the phase at which dissolution must follow.

A second factor that makes for uncertainty is the rapid growth of specialities during the past decade. Hospital pharmacy has remained the one branch in which the pharmacist still has scope for the full range of his activities. Many have taken pride in their skill at formulation and manufacture. But every month sees an increase in the number of specialities and a waning in the scope for "home" production. The pharmacist's function is changing, and he must face the challenge if new vitality is to be found. If we are to have a vigorous and healthy profession, new interests must be developed to replace the old ones. There is obviously a need for a new type of technologist in hospital sterilisation and much has already been said of the pharmacist's interest in that field. No progress is likely, however, unless pharmacists equip themselves and make a contribution to the published work on the subject. Teaching is another activity that might well be developed. Many pharmacists already give courses of lectures to nurses, but too few have considered carefully the rôle of the pharmacist as teacher. It could happen that in the future we shall follow the pattern long established in France, where the hospitals are closely integrated with pharmacy schools and are used extensively for student-training, the chiefs being teachers in the university. The need to extend the frontiers of hospital pharmacy is perhaps not yet the most obvious, but it is the most important for the future well-being of the profession.

The third factor in our present depression is the frustration produced by the Whitley salary system. For too long salaries have lagged behind those available in retail and industry and have resulted in an almost complete failure to recruit mcn to make a career in hospital work. Not only are the salaries too low but the scales are too long, and there are too few posts that even reach-let alone pass-the £2,000 mark. A further frustration is the lack of any means of merit promotion within the scale. Although some improvements have been achieved in recent years, there is always the sense that the Ministry is not really interested in the quality of the service and is content so long as, somehow or other, posts are filled. The request made by the staff side some years ago that an independent observer should be invited to review the state of hospital pharmacy was rejected by the Minister. The need has not diminished, but will increase. The condition of adversity must be taken as a challenge by hospital pharmacists to new and vigorous endeavour towards a scheme that will provide incentive and career value.

VACCINE GIFT: The Government of Nigeria recently donated 300,000 doses of freeze-dried smallpox vaccine, with the promise of a further 500,000 doses, to the World Health Organisation. The vaccine is being utilised in the Congo region to control the spread of recent outbreaks of infection.

NEW BOOKS

Clinical Salaries Analysis, 1960

Institute of Office Management, 56 Victoria Street, London, S.W.1. $9\frac{1}{2} \times 6$ in. Pp. 126.

In this ninth issue in the series, the opportunity has been taken to widen in certain respects the scope of the investigation that has been carried out. The book provides for the first time more detailed information about the salaries of women clerks and about minimum age scales. It is based on a sample of 87,000 clerks in 1,112 offices. Of the clerks included in the sample nearly two-thirds were women, of whom more than half were working with machines of one kind or another.

Aids to Forensic Pharmacy

H. W. FOWLER, B.Pharm., F.P.S. Baillière, Tindall & Cox, 7 Henrietta Street, London, W.C.2. $6\frac{1}{4} \times 3\frac{1}{4}$ in. Pp. 299. 12s. 6d.

Some sections of this book were unfortunately made out of date by the publication of the Poisons Rules, 1960, but the references to other items of legislation are still in line with current law. The book is divided into two parts, the first consisting of brief statements of the law. It suffers by only rarely giving the precise section—or subsection of the actual piece of legislation. The second section gives summaries of the action to be taken in stated circumstances. Specimens of labels are included as well as details of the appropriate records that must be kept.

SOUTH LONDON AND SURREY GOLF Pharmacists' Golfing Society's annual supper

EIGHTY-FIVE golfing enthusiasts dined at the Shirley Park Golf Club recently on the occasion of the South London and Surrey Pharmacists' Golfing Society's seventh annual supper. A highlight of the evening was the presentation by Mr. John Penson (captain of the Shirley Park club) of twentyeight trophies and prizes played for during the 1960 season. They included a new award—a putter inscribed with the name of Jamie Anderson, winner of the Open Championship 1877-79. Chairman of the proceedings was Mr. Frank Jamieson (captain of the Golfing Society), and Mr. Marsden Lewis shone as an entertaining announcer. The principal awards were made as follows: Scotia bowl: C. J. Martin; George Watt tankard: G. Howell; Sussex tankard: M. Lewis; Cupal prize: G. Howell; Calcutta cup, G. Roberts; Widocks memorial trophy: B. Stephenson; Bobby Locke trophy: G. Roberts; Captain's prize: A. Seath; Sussex tankard: S. M. Hutchinson; Verona trophy: G. G. Jamieson; Phil Thorp putter: G. Roberts; Ucal prize: R. Hedges; J. L. Wrathall tankard: M. Bloodworth; Founders' trophy: A. Cottam; Sussex tankard: D. Spier; Visitors' prize: F. Dawes; Croydon shield: M. Doyle; Unichem trophy: D. Spier; Cow & Gate trophy: B. O'Kane; "eighteen-and-over" prize: C. Sackett. Below are the 1960 prizewinners.



Prolonged-action Medicaments INTERNATIONAL SYMPOSIUM ON TECHNOLOGICAL ASPECTS

THE general theme of a pharmaceutical technology symposium held in Copenhagen in August under the auspices of the section of industrial pharmacists of the International Pharmaceutical Federation was the technological aspects of the preparation of medicaments with prolonged action for oral administration. Three papers were presented. The first, by Dr. David Jack (Smith Kline & French Labora-tories, Ltd.) dealt with the coating of medicaments with substances resistant to the gastric and intestinal juices; the second, by Dr. L. Saunders (School of Pharmacy, University of London), was entitled "Coating with Ion-exchange Resins and Chemical Complexes"; the subject of the third was the incorporation of medicaments in a base to ensure the slow release of the therapeutic substance. Its author was Dr. Jack Cooper (CIBA Pharmaceutical Pro-ducts, Inc., New Jersey, U.S.A.).

Purpose

DR. JACK, in his paper, defined the usual objective of sustained-release formulations: to provide a satisfactory therapeutic response for twelve hours with a single-dosage unit so that the patient need take only two doses per day. To determine the rate at which the drug should be supplied, one must establish the single dose required to provide a therapeutic level, and the rate at which the drug was lost by metabolism and/or excretion (the biological half-life of the product at near the therapeutic blood/tissue concentration).

Two main types of sustainedrelease products depended on coatings for their efficacy: the first, medicated pellets covered with the coating; the second, the drug dispersed in a finely divided state in a matrix of the coating material.

Because their performance depended on p_H changes in the alimentary tract, entcric coatings would normally provide a delayed release of medicaments. Coatings or matrices for sustainedrelease products should not be unduly affected by changes of p_H and should bc slowly permeable to gastric and intestinal fluids.

Preparing the "Seeds"

Medicated pellets were usually prepared by coating the drug on to sugar starting "seeds" or other inert pellets by means of adhesive solutions containing, for example, gelatin, sucrose or polyvinyl pyrrolidone, etc. Traditional pan coating methods were suitable. The sustained-release coating could also be applied to the medicated pellets by pan coating methods; it was usually applied as a solution in alcohol or other suitable solvent, the solvent being removed between applications. The rate of release depended on the average coat thickness and the nature of the coating material, and different lots of coated and uncoated pellets might be mixed to obtain practically any desired release rate. That enabled the release rate of the drug to be adjusted according to its duration of action.

The only liquid sustained-release product known to the author contained the sulphonamide sulphaethylthiadiazole. It was prepared by dispersing finely divided drug in a molten wax and spray-congealing the melt to give drugcontaining wax-spheres of about 30-40µ diameter. The spray-congealed material was suspended in a palatable vehicle. Prepared as described, the product would give high initial release of drug because of the great surface area. In the author's view the method described was probably restricted to drugs that were sparingly soluble in water and had relatively high $t\frac{1}{2}$ values. In tablet formulations the drug was dispersed alone or with therapeutically inert materials in a water-resistant matrix (wax or plastic) by means of heat or a solvent. The mass was granulated, mixed with varying amounts of hydrophilic materials and tableting adjuvants, and compressed. Control of release rate was obtained by varying the matrix and the proportion of drug and diluent in the matrix, and by varying the proportion and nature of the material between the granules in the tablet. The main new problem posed to the analyst was in vitro determination of drug-release rate.

Biological Studies Stimulated

DR. COOPER said that the rapid development of sustained-release oral medication had powerfully stimulated research activities in the pharmaceutical industry. A second and equally important effect had been an extension and broadening of biological studies dealing with the absorption, utilisation and excretion of drugs, particularly from a kinetic point of view. In assessing the state of knowledge in that field investigators were hampered by the absence of published technological information. It was obviously difficult to analyse and interpret the various methods used to obtain prolongation of drug activity when the only source of information lay in advertising brochures. The oldest of the techniques used was coating. Only recently had other concepts such as ion-exchange, complexing and controlled diffusion reached the stage of clinical acceptance. The main advantages of those newer types lay in their homogeneity and precision of weight control. Some were independent of chemical composition of the gastrointestinal fluids, and provided increments of the drug by diffusion so long as they were present in the absorption region of the alimentary tract.

It appeared best to divide that group of dosage forms into tablets that disintegrated into discrete particles in the gastrointestinal tract; tablets that gradually eroded but retained their original shape, and tablets that retained their original shape and size but gave up active drug by leaching.

DR. SAUNDERS said that, in order to achieve a reliable sustained-release

effect, simplicity in formulation was important. Elaborate successive coatings such as had been described by a number of workers relied on the presence of particular physiological conditions in the gastrointestinal tract of the patient. Prolonged dosage with such preparations could lead to an accumulation of undissolved coatings. The simplest device for achieving sustained release of ionisable drugs was the use of ion-exchange resins as carriers. The resins were non-toxic and easily ex-creted; if a strong resin were used the rate of release of drug was mainly dependent on the ionic strengths of the fluids with which it came into contact and was not greatly altered by changes of pH; only one component, the resin, was required in addition to the drug. The resins had the advantage over solid adsorbents that a good deal of sustained-release effect came from the slow diffusion of drug molecules through the resin particle structure, and that could be controlled by varying the particle size of the resin beads and also by altering the degree of crosslinking of the resin. It was, however, probably unrealistic to consider sustained releases over periods longer than 8-12 hours when resin-drug preparations were taken orally.

The idea of using ion-exchange resins to give oral sustained-release preparations had developed as a result of the ideas of a number of workers. First systematic work on the subject seemed to be that of Saunders and Chaudhry (1956). The release rate was found to be dependent upon the total electrolyte concentration of the eluting solution, but the rates with 0.1N sodium chloride and bicarbonate were only slightly less than the rate with 0.1N hydrochloric acid. The degree of cross-linking of the resin had a marked effect on elution rate, as did the particle size of the resin. A useful retardation of the initial rate of release could be achieved by mixing the resin saturated with drug with resin containing no drug. The same effect could also be obtained by only partially saturating the resin with drug, and in fact a good control of the shape of the release curve could be achieved by varying the degree of saturation of resin with drug.

Clinical trials had shown that the combination of several drugs with ionexchange resins did give a sustained medication, as indicated by the *in viro* studies. It had also been found that the total amount of drug required to provide a given sustained effect was less when the resin combination was used than when repeated doses of the drug were given. The results with anionic drugs were less clear. With penicillin, complications arose owing to chemical changes in the penicillin molecule when it was absorbed by the resin, leading to a loss of activity.

Discussion

In comments on Dr. Saunders's paper PROFESSOR J. BUCHI, Switzer-

Answering a question on how to determine whether a substance were suitable for subjecting to the ion-

exchange technique DR. SAUNDERS said that the requirements were that should be physically stable; insoluble in water and the gastric juices; largely unaffected by changes of pH; of fairly high melting point; and not crystalline.

The coating of individual tablets for test was not practicable, said MR, JACK.

effect was often altered under different

pathological conditions. Pathological

disorders had also been caused when

they ceased to act. Many disorders

were attributable to the absence of a particular enzyme required for normal

metabolism, Principal metabolic dis-orders included galactosæmia, glyco-genic polycoria, phenyl-pyruvic oligo-phrenia, and pentosuria. Clinical-

chemical laboratories were now equip-

ped with apparatus and reagents for

determining the effects of a wide variety of enzymes. Purposes of the determinations were: (a) to establish in-

creases of diminutions of the relative quantity of an enzyme normally pres-ent, and whose effects varied in differ-

Purposes of the

SYMPOSIUM ON ENZYMES Behaviour; standardisation; application in pharmacy; determination

THE Scientific Section of the Federaorganised a symposium tion on enzymes, at which three papers were presented. In the first, H. Jörgenscn, Denmark, surveyed their general behaviour, functions and activities. In Denmark, dealt with the standardisa, tion of enzymes. K. BULLOCK, Great Britain, followed with a review of their applications in pharmacy; and J. COURTOIS described methods of determining enzymes in clinical chemistry. Determinations were made mainly, said Mons. Courtois, on blood, rarely on urine and the gastric and duodenal juices. The importance of enzymes to cellular activity was evident. Their

ent pathological disorders; (b) to follow the passage in the blood stream and possibly in the urine of an enzyme normally scereted in other parts of the body; (c) to follow the passage in the blood stream of endocellular enzymes liberated by necrosis in the tissues; or (d) to examine the genetic causes of the non-functioning of an enzyme. The enzymes were determined by their effect on a suitable substrate. The principle of the procedure was simple. In practice it had to be performed with great care, especially as to drawing and preservation of the sample, selection of substrate, observance of conditions of procedure (pH, temperature, duration, and ratio of enzyme to substrate). Nomenclature used to describe the results was at present in confusion. International commissions had suggested standard terms for the effect of enzymes and the use of such standard terms was desirable both for enzymes determined in clinical chemistry and for those included in pharmacopreias. The fourth paper in the symposium was on "The Enzymatic Basis of the Effect of Drugs and Poisons." It was by JOSEF RIEHL, Germany.

FIXED PRICES, MARKETING AND TRAINING **Problems discussed at Management Conference**

A PLEA for a study of the effect on industry of the Restrictive Trade Practices Act, 1956, was made by MR. WIL-LIAM J. BROWN, M.C. (solicitor to the Supreme Court) in a paper dealing with the Act presented at the National Conference of the British Institute of Management at Harrogate, October 11-13. Mr. Brown held such a study to be of vital importance; economists, he said, "could hardly perform a more useful service," but he stressed that it would require a detailed knowledge of the in-dustry concerned and not merely "the application of economic theory without application of economic theory without relevance to the individual facts." He referred to the inquiry conducted by the Board of Trade to ascertain the extent to which resale price maintenance was enforced, and the reasons why some manufacturers availed themselves of their rights under the Act, while others did not do so. He hoped that, from the inquiry, the Government would learn the true reason for resale price main-tenance ... "that cut prices lead to tenance . . . "that cut prices lead to demands for greater margins which must be reflected in higher prices."

Price Warfare an Outcome

In the case of a few industries where restrictions had been abandoned, price warfare had broken out. In many instances there had been no substantial fall in prices. There was as yet no evidence that quality had deteriorated nor could that yet be expected. There was, however, an obvious tendency towards the amalgamation of firms so as to form fewer and larger units in any one industry. Such units were able to withstand such competition as might develop. If that tendency increased it might be a matter for anxiety. Mr. Brown considered that, if the effect of the Act had been less than might have been expected, that was probably due firstly to the sustained demand and

prosperity which had existed since the introduction of the Act, and secondly to the disinclination of manufacturers to indulge in price wars. To an increasing extent that had been avoided by the use of what in the United States were called "open" price agreements whereby the parties concerned notified each other of their own prices and proposed changes. Such agreements were as a rule illegal in the United States but were outside the scope of the law in this country as it stood at the moment.

Forward Planning for Sales

In another paper—" Marketing and Selling," MR. COLIN MCIVER said that "A businessman who does not arrange to keep up with the inexorable march of events-if possible to keep half a step in front of them—is unlikely to prosper." He urged the development of one section of a company's marketing department to deal with forward planning, with three elements in mind.

The first should be economic and social forecasting," he said. "Secondly, it should involve a contribution from the technical research section of the production department. Thirdly, the research manager should be called into service to interpret his findings about the current behaviour and needs of the consumer in terms of their future requirements."

It was more profitable in the long run to give the people what they wanted than to attempt to force them to take what was available. "If you don't give them what they want, some-body else will," he said.

Essential elements in the marketing outlook were an analytical approach towards internal organisation and sell-ing methods, aided by the development of machine accounting, and the "recognition that the world changes and even the greatest corporations must

change with it." Mr. McIver suggested that the best approach to export marketing was to think in terms not so much of selling for export as of generating demand in export markets, Marketing and selling were not alternatives. Marketing was a calculated and scientific technique for selling goods and services, but it was no substitute for selling.

Training for Management

MR. T. J. ROBERTS (educational and training officer, Beecham Group, Ltd.) presented a paper on "Restlessness and Intellectual Under-employment in Management Trainees." He suggested a revision in the methods of training uni-versity recruits. The term "management trainees" should be scrapped. The recruit from a university should be taken on for a specific job. His future career would depend upon how well he did it. The nature of the training and,

partly, the characteristics of the trainee, were usually the cause of restlessness and intellectual under-employment, said Mr. Roberts. Often the training programme lasted anything from three months to two years. "Unfortunately the process is soul-destroying and gives rise to more restlessness and frustration than any other single factor." The graduate saw himself as a responsible person, but responsibility was the "last thing" that happened to a management trainee.

The young man should be recruited for a specific job, put in that job from the word "go," and given the kind of not be moved until he has demonstrated his competence, and his future de-velopment should be catered for by the company's executive development programme like every other promising executive."

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CUMULATIVE LIST OF AMENDMENTS TO T C. & D. Quarterly Price List, September 1 THIS WEEK'S CHANGES ARE GIVEN SEPARATELY AT END Arrid (1003 PP) 20 Carats (350 Dana) $45 \\ 6 \\ 10$ 3 7 1ea 12 2ea 21 0 3ea perfume trial 22 6 roll-on refill Asmapax (70 Aspro) . 250 Atkinsons (76 Atkinson) roll-on refill $\begin{array}{ccc} 27 & 0 \\ 420 & 0 \\ \end{array}$ 6 - 9 6 124A 124V 35 6 52 184B 6ea Actifed (208 BW) tablets 500 4 oz 1040 000 130 ts7men's range ••• • • 00000 6 25 †s7 †s7 compound linetus .. 4 oz 20 oz after shave lotion ...6540 $\begin{array}{r} 64 \\ 75 \\ 64 \end{array}$ 272 • • 0 31 10 6 6 6 ... 200 0 0 0 36 12 syrup .. . 4 oz 20 oz †s7 †s7 48 ň 6 31 200 ŏ 25 . . $\frac{64}{72}$ 0 10 Adaptoplast (339CG) dressings, first aid 0 0 6 refill ...6538 cream lather 6530 brushless 6532 M286 M285 $\stackrel{6}{\overset{\ldots}{}}$ 10] $\dot{36}$ 36 5 6 15 1 9 . . 45 $\begin{array}{c} 0 \\ 0 \end{array}$ Adcortyl-A (1176 Squibb) ointment 50 with Graneodin 50 45 67 6 50 gm 50 gm 9ea 47 71 TS 3 TS 31 talc ..6552 $4\overline{5}$ ŏ 35 6ea 53 . . 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Beauti-Lash (385 DG) 119 159 6 6 mascara applicator ... 75. . 0 $\frac{37}{23}$ $\begin{array}{c} 6 \\ 0 \end{array}$ 12 7 6 9 Aldocorten (262 CIBA) 46 ŏ 41 0 13 Becomel (324 Crookes) elixir 1 mil 274ea ampoules Alficetyn (34 A&H) capsules 250 mgm $\begin{smallmatrix} 0 & \ldots \\ 0 & \ldots \\ 0 & \ldots \end{smallmatrix}$ 4 oz 8 oz 26 3 3 0 0 .. 100 3 TS 9 TS 3 TS 0 TS $\begin{array}{c} 162 \\ 107 \end{array}$ 0 . 2ea 20 5 :: 80 oz 45 .. 1552 Becosym (1074 Roche) with B12 ampoules 1000 1034 10ea .. 1 oz 5 gm 40 52 0 ... 0 ... 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Benerva (1074 Roche) tablets 300 mgm 91 0 45 6 15 0 aerosol. 10 oz Amphetone (1348 JW) 25 100 0 0 60 $\begin{array}{c} 0 & \dots \\ 0 & \dots \end{array}$. . :: 12 37 6 300 100 20 oz 40 oz 108 Better Off (385 DG) for the face ... for the legs ... 16 28 0ea $\frac{66}{54}$ 0 0 33 0 6ea 11 9 80 oz 0 Anapolon (649 ICI) tablets 5 mgm 27 0 Biotrase (769 LH) 35 gm 95 228 0 28 11 3 1 6 2 03 Bipepsogin (1152 SK) ... Blacfrutex (1351 WLU)... 100 0 840 105 00 16 6 4 500 340 0ea 510 cough linetus .. 11 17 Andre Philippe (48 AP) 2 4 35 91 41 1 2 10 6 21 0 eau de cologne/lavender 18 men's roll-on deodorant 104 perfume story book ... XI 1 2 3 9 0 6 4 9 Body Mist (303 County) 16 18 17 23 $10 \\ 0$ 4 9 Ğ roll-on refill ... spray ... tube ŏ 23 11 8 3 9 9 6 $\frac{23}{23}$ Angel Touch (256 CPL) 4 8 8 23 9 $\frac{4}{6}$ $\frac{11}{20}$ 83 36 11 9 bottle 80 10 90 40 Antilope (Weil) (960 ADP) tube eau parfumee 2 oz 080 4 oz 081 8 oz 082 B-R (1023 Radlol) 19 ž Delais 6 healing jelly ... 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0ea 0ea

							Albert's (1000 DDI)
$\begin{array}{c} \text{bath essence} \\ 2\frac{1}{2} \text{ oz } \dots 1027/82 \end{array}$	54	0	26	4	9	6	Celbenin (1393 BRL) vials 1 gm 5 65
5 oz 1027/83	76	0	37	0	13	6	25 325
hand lotion 5 oz 1027/84 talcum powder 1027/85	$\frac{39}{24}$	6 6	$\frac{18}{12}$	9 0	74	0 3	Cophos (104 BP) 100 1300
bath cubes (6) 1027/86	28	6	13	11	5	0	powders 15
(12) $1027/89$ brilliantlne $2\frac{1}{2}$ oz $206/2$	$\frac{54}{22}$	0 3	$\frac{26}{10}$	4 9	9 4	0 2	- 31 107
5 oz 206	$\overline{34}$	6	16		6	3	doz 6
honey and flowers $2\frac{1}{2}$ oz $208/2$	22	3	10	9	4	2	195 doz 1
5 oz	34	6	16	10	6	3	tablets 15
orlginal oatmeal cream253/1 253/2	$\frac{18}{38}$	6 0	9 18	0 6	3 6	3 6	31 170
plne bath cubes (6) $2022/6$	19	0	4	3	3	3	doz 4
essence 10 oz 902 pre-electric shave lotion	56	9	29	8	9	6	Delete 60 Delete 120
200/2	25	3	12	3	4	3	Check (665 JS) cream 271 14
shaving soap bowl 200	$\frac{45}{58}$	6 0	$\frac{22}{14}$	$\frac{2}{2}$	78	6 6	spray 269 22 Chesties (1215 Teasdale) 3
refill 205/R	34	ŏ	8	3	5	0	Chosties (1215 Teasdale) 3 Delete 5 lb
stick	20	0 3	$\frac{4}{2}$	11 6	2	9 6	Chilton (257 Chilton)
refill 2304/R	10	0	4	0			Sportsman electric shaver Acculux rechargeable torch
baby toilet (3)1030 bath ball1008	41 57	0 0	$\frac{10}{13}$	$\frac{0}{8}$	6 8	0 6	illuminated magnifier
bath ball1008 beauty visitors (6) 1027/V	42	0	10	6	6	6	angle holder Accuflash
toilet 1027/T	$\frac{10}{20}$	6 0	$\frac{2}{4}$	7	13	8 0	equipment bag for photoflash
bath 1027/8 colossal 1027/C	51	6	$1\overline{2}$	11 7	8	0	screen plate
lemon toilet 601 bath 601/B	11	6 8	$^{2}_{5}$	10 3	13	9 3	throat spatula klt with stand
bath 601/B visitors 601/V	$21 \\ 7$	3	1	9	1	1	dental kit with stand otoscope
marbles (34) 434 melon 603/R	$\begin{array}{c} 49\\110\end{array}$	0 0	$\frac{11}{26}$		7 16	6 0	adaptor
melon 603/R men's toilet (3) 204	46	ŏ	11	3	6	9	circuit tester
original round bath 1007/3		0	5	7	3	9	spy light
pine toilet 3 oz 650	$\frac{23}{10}$	6	2	7	1	8	spare bulb
bath 6 oz 651	18	6	$\frac{4}{2}$	6 7	2	9 9	Chinchilla (Weil) (960 ADP)
pre-make-up1052 Scotch heather (3)1055	$\frac{11}{49}$	6 0	12	2	7	6	$\begin{array}{cccc} \text{eau parfumee} & & 2 \text{ oz } & 080 & 9 \\ & 4 \text{ oz } & 081 & 16 \end{array}$
"sea shell" guest . 435	57	0	$^{13}_{7}$	8	8 4	6 6	8 oz 082 26
"shell" (3)1050 turtle oil toilet 604/T	30 8	6 7	2	$\frac{5}{1}$	ï	3	16 oz 083 46 perfume handbag 017 7
bath 604/B	15	0	3	2	2 4	29	t oz 016 14
sun-tan lotion	$\frac{28}{21}$	0 0	$\frac{13}{10}$	3	3	6	$\frac{1}{2}$ oz 015 26 1 oz 014 42
talcum powder2711	34	6	16		5	9	2 oz 013 75
mens 203 turtle oil	26	0	12	8	4	6	handbag coffret SE 15 "Secret de Venus" bath oil
talcum powder 605	21	0	9	6	3	6	$\frac{1}{2}$ oz 060B 20
bath cubes (6) 606 (12) 607	$\frac{19}{33}$	6 0	$\frac{9}{16}$	6 0	3 5	3 6	1 oz 061 37 2 oz 062 67
Brontyl (769 LH)					-		4 oz 063 127
ampoules 2 mils 5 Brylcreem (303 County)	60	0		••	7	6	bobine \dots single 060 4 bobines \dots 12 060 50
tub	11	8		10		10	Chloromycetin (938 PD)
	$\frac{18}{32}$	$\frac{1}{0}$	$\frac{9}{16}$	$0\frac{1}{2}$	25	10 0	capsules 0.25 gm 12 162 100 107
dispenser refill	25	6	12	9	4	0	500 519
Calypso (Plguet (1201Supervite)) bath oil	13	0ea	6	6ea	26	9	cream tube 40
Cambison (614 Hoechst)	10		Ŭ				ja r 240
(distributors 621 Horlicks) ointment 0.25% 5 gm	40	0			5	0 TS	ear drops 5 mils 62 100 mils 63
20 gm	128	0			16	0 TS	endotonic compound
0.5% 5 gm 20 gm	$\frac{64}{204}$	$\begin{array}{c} 0 & \dots \\ 0 & \dots \end{array}$		• ·	8 25	0 TS 6 TS	cartridge 90
Canoe (350 Dana)	204			••			hydrocortisone ophthalmic 5 mils 84
perfume trial 729A	$\frac{45}{6}$	0 3ea	$\frac{22}{3}$	3 1ea	7 19	6 6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
729V	10	6ea	5	2ea		ŏ	intravenous $6 \times 0.5 \text{ gm}$ 180
toilet soap (3) 507	6	0ea	1	6ea	10	6	ophthalmic 25 mgm vial 42 Aplicaps 1% 50 76
Cardiazol (708 Knoll) liquid 10% 10 mils	2	6ea			3	4	250 360
100 mils	$^{19}_{2}$	6ea 9ea		•••	26 3	0	$\begin{array}{cccccccc} palmitate & \dots & 60 \text{ mils} & 122 \\ pure & \dots & 5 \text{ gm} & 244 \end{array}$
100	21	0ea			28	õ	25 gm 100
Cardiazol ephedrine (708 Knoll) drops 100 mils	2 0	0ea			26	8	100 gm 373 succinate 1 gm 130
tablets 10	3	0ea		••	4	Ō	suppositories
100 Carters (1003 PP)	22	6ea		•••	30	0	topical 5% 15 mils 84 Chlormytol (938 PD)
little liver pills 36	14	5	3	$7\frac{1}{4}$		11	ointment 5 gm 68
Cassandra (Well) (960 ADP)	35	9	8	114	4	9	15 gm 172 Colchipirine (292 C)
eau parfumee 2 oz 080	9	6ea	4	7łea	19	6	tablets dp 400 227
4 oz 081 8 oz 082	$\frac{16}{26}$	6ea 3ea	12^{8}	0 ¹ / ₂ ea		6 6	dp 1000 575 Coldrex (976 PS&T) . 24 41
16 oz 083	46	3ea		6ea	92	6	Comba-Curler (888 Newey) 10
perfume handbag 017 t oz 016	$\frac{7}{14}$	9ea 9ea	3 7	9ea 2ea		0	Conotrane (1305 WB) silicone cream 60 gm 60
½ oz 015	26	3ea	12	9 <u></u> 1ea	53	0	200 gm 144
1 oz 014 2 oz 013	42 75	0ea 0ea	20 36	6ea 6ea 1		0	500 gm 25 Corangil (37 Allied)
handbag coffret SE "Secret de Venus" bath oil	15	9ea	7	8ea		ŏ	tablets 50 8
"Secret de Venus" bath oil <u> </u> oz060B	20	9ea	10	1ea	42	0	$\begin{array}{ccc} 250 & 35 \\ 1000 & 129 \end{array}$
1 oz 061	37	6ea	18	3 ea	75	0	Cordex (1263 Upjohn)
2 oz 062 4 oz 063	$\begin{array}{c} 67\\ 127 \end{array}$	6ea	62	11ea1 2ea2		0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
boblne single 060	4	3ea	2	0 l ea	8	6	forte
bobines 12 060 Cassells (Dr.) (104 BP)	50	0ea	24	4≟ea	102	0	500 62 Cravens (316 Craven)
tablets	18	4				11	hert harley sugar 5 lb 13
Ceelite (315 Crater)	40	9		••	4	3	best English mints 5 lb 11 blackcurrant aniseed 5 lb 14 blackcurrant pastilles 1 lb 10
electric blanket control					8	9	blackcurrant pastilles 1 lb 10
with neon	••	• •		••	10	6	6 lb 19 Blix licorice pastilles . 6 lb 16
electric blanket control		·			29	6	crystal mints

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THE CHEMIST AND DRUGGIST

October 29, 1960

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540							CII	LMISI
	glucose lemon barle	y5lb	11	10}ea				9 gtr
	menthol and eucalyptus BPC	5 lb	16	5ea			1	0 gtr
	Creme Simon (317 CS)		45	0	22	6	7	6
Delete	Crookes (324 Crookes)	jar B-comple				0		0
	Gryogenine (49 AF) tablets, 0.25 gm	10	20	0	5	0	2	8
	Cuir de Russie (247 Ch	anel)	20	8	5	2	3	0
	bath		37	10	9	6	5	6
	taleum Cumfy-Socks (1075 R)	6 902 	$^{6}_{15}$	2ea 0	3	1e 9	a 13	0 11
	Cussons (388 Cussons)	. orean						
	imperial leather hair	5480	14	0	6	10	2	6
	Cutipen (327 WC) refill		$ 19 \\ 10 $	0 6	9 5	$\frac{6}{3}$	3 1	3 9
	Cyphoids (1152 SK)	••	$\frac{4}{9}$	6 0	$\frac{1}{2}$	$^{1}_{3}$	1	71/2 3
	Daranide (837 MSD)	100			-			
Delete	tablets 50 mgm Dascote (1262 UL)	$\begin{array}{ccc} & 100 \\ & 16 \end{array}$	40	0ea		•••	60	0
	Decadron (837 MSD)	28						
	tablets enteric coate		792	0			99	0
		gm 100 500	3774	0		•••	471	9
	Deep (102 CB) treatme	ent shamp tube	900 48	0	12	0	6	9
	Delta-Butazolidin (501 tablets	Geigy)	570	0			71	3†s4ATS
		150 500	1740	ŏ			217	6 † s4ATS
	Dento (219 Calvert) Dequadin (34 A & H)	••	10	8	2	8	1	5
	tulle 4×4 in.	$10 \\ 36$	$\frac{44}{89}$	0		•••	5 11	6 11
	Desert Flower (1131 Sh							
	dusting powder hand and body lotio	n	$\frac{77}{44}$	6	$^{37}_{21}$	6 8	13 7	6 9
	dispenser		92 70	6 0	$\frac{45}{34}$	$\frac{1}{2}$	16 12	6 6
	spray cologne	••	128	0	62	5	22	6
	talcum powder toilet water		37 70	0	$\frac{18}{34}$	$\begin{array}{c} 0 \\ 2 \end{array}$	6 12	6 6
	Dexten (70 Aspro) Dimyril (502 Genatosau	250	210	0		••	26	3 †s4B
	linctus	2 oz	29	0	7	4	47	3 3
	Dinneford's (104 BP) n	4 oz nagnesia	$\frac{50}{19}$	0 8	$^{12}_{4}$	8 11	2	6
	Discord (876 MP) Distaval (378 DCBL)		13	6	6	9	2	3
	tablets forte 100 mg	m 1000	204	0ea		• •	306	0 †s4B
	Distavone (378 DCBL) vet. vial	75 mils	s 46	6ea			69	6
	Distivit (378 DCBL)							†TSVPO
	20 elixir 1000 tablets	4 oz 4	$\frac{3}{6}$	0ea 0ea		•••	4	6
	Do-Do (657 IL)				0	2	1	
	tablets	$\frac{8}{25}$	$\frac{12}{31}$		$^{3}_{7}$	9	4	2 s7
	Donnazyme (1071 Robi	100 ins)	110	0	27	6	14	7 s7
	tablets	50 500	$\begin{array}{c} 122 \\ 1020 \end{array}$	0 0	$\frac{30}{255}$	6 0	14 121	6½†s1s4A 3 †s1s4A
	Dorothy Gray (385 DG							0
	propelling eyeliner refill	•••	$\frac{72}{27}$	0 0	$\frac{36}{13}$	$\begin{array}{c} 0 \\ 6 \end{array}$	12 4	6
	Duicolax (154 B)		95	0			3	11
	suppositories 10 mgn	50	$\frac{25}{150}$	0			18	11 9
	tablets 5 mgm	200 30	$\frac{47}{25}$	6ea 0		•••	71	3 11
	tablets 5 mgm	200	130	0		••	16	3
	Duromorph (718 LAB)	1000	51	6ea		•••	77	
	ampoules 1.1 mil Ekco (1377 Ekco)	6	81	0		••	9	0 DD
	Ekcostat control					•••	32	6
	Elastoplast (1155 S&N) first aid dressings							
	$3 \times \frac{7}{4}$ in 100 waterproof	11400	114	0		•••	13	3
	$3 \times \frac{2}{6}$ in 100	12400	114	0		•••	13	3
	$3 \times \frac{7}{6}$ in 100	14400	171	0		•••	20	0
1	Emir (350 Dana) perfume	trial	45	0	22	3	7	6
	Postanto	129A 129V	6 10	3ea 6ea		1ea	12	6
	toilet soap (3) Enavid (1121 Searle)	508	6	0ea	ĭ		10	6
	tablets 10 mgm	20	31	0ea			46	6 †s4B
		$\begin{array}{c} 50 \\ 250 \end{array}$	69 323	10ea 3ea		••	104 484	9 †s4B 10 †s4B
(Endoxana (1305 WB)	50	22	0ea			33	0 †s1s4A
	tablets 50 mgm	250	100	0ea		• •	150	0 †s1s4A
	vlals 100 mgm 200 mgm	$ \begin{array}{ccc} & 10 \\ & 10 \end{array} $	$\frac{40}{53}$	0ea 4ea		•••	60 80	0 †s1s4A 0 †s1s4A
I	Energen (421 Energen)							
	low sugar jams strawberry	$\begin{array}{c} \cdot \cdot \frac{1}{2} \ \text{lb} \\ 1 \ \text{lb} \end{array}$	15	0		••	1	8
	plum	1 lb ½ lb	$\begin{array}{c} 24 \\ 13 \end{array}$	9 6			2	9
	orange marmalade	1 lb	$\frac{22}{13}$	6 6			2 1	6
		1 lb	$\frac{20}{24}$	3 0	6	ö	23	6 3 0
	Eno's (104 BP) f rui t sa		42 42	8	10	8	5	4

	Falsanada (1150 GT							ĺ	
	Eskornade (1153 SKF) Spansule Esslim (1158 Sodastrea	30	128	0	32	0	18	8	† s7
	Esslim (1158 Sodastrea squash Eura 66 (884 NB) cam				•	•••	2 38	0	
	Evan Williams (437 E skin cream		7	6	. 3	9	1	3	
	Fashion Style (631 Hud	inut)	12	9	6	41/2	2	2	
	soft casual	··· 202 200 ··· 203	33 53 33	6 6 6	16 26 16	9 9 9	5 8 5	6 9 6	
	for children	203 201 998	53 29	6 6	$\frac{10}{26}$	999	84	9	
	Feather Finish (1355 Y Florentine case		69	0	34	6	11	6	
Delete	Felicur (1107 SAGB) (distributors 973 Ph:		ls)						
	capsules Fennings (1100 JS) baby dusting powder	1000 r	14	6	3	$7\frac{1}{2}$	1	11	
	cooling powders child		45	0	11	3		6	
		20	14	oss 6	gro 3	7불	1	11	
	little heale <mark>rs</mark>	$\begin{array}{c} 100\\& 36\\ 90 \end{array}$	$ \begin{array}{r} 69 \\ 12 \\ 29 \end{array} $	6 6 0	$ \begin{array}{c} 17 \\ 3 \\ 7 \end{array} $	$\frac{4\frac{1}{2}}{1\frac{1}{2}}$	1 3	14 8 10	r
		12	60	0 Oss	15 gro	0	3	8	
	Fibrenyle (461 FL) thro Fiery Jack (488 Fylde)	at spray	9	3.	-	••	1	2	
	warming wool Flair (1355 Yardley)		13	6	3	41	2	0	
	bath oil dusting powder Cologne	$4866 \\4809 \\4884$	75 93 69	0 0 0	$37 \\ 46 \\ 34$	6 6 6	12 15 11	6 6 6	
	crystallised	$\begin{array}{r} 4885 \\ \ldots 4870 \end{array}$	$\frac{126}{45}$	0 0 0	$\frac{63}{22}$	06	21 7	0	
	$perfume$ $\frac{1}{2}$ oz	4890 4892	$\frac{75}{165}$	$\begin{array}{c} 0 \\ 0 \end{array}$	$\frac{37}{82}$		12 27	6 6	
	l oz soap	4893 4862	$270 \\ 21 \\ 05$	0	135	03	45 2	9	
	spray mist Flavelix (466 FF) linctu	4847 1s 4 oz 20 oz		0 0 0	$\frac{43}{7}$	6 0 	14 4	6 1	ts7 ts7
	Floidam (900 Norton)	80 oz	30	0ea		•••			†87
	lotion	3 oz 5½ oz	$\frac{39}{66}$	0 0	$\frac{19}{33}$	6 0	6 11	6 0	
	Floidam Tan (900 Norte	3 oz	57 105	0 0	$\frac{28}{52}$	6 6	9 17	6 6	
	Flurymal (1107 SAGB) (distributors 973 Pha	5½ oz ırmethical		0	04	0		U	
		$\begin{array}{c} & 6 \\ & 50 \end{array}$		0 0ea		•••	10 78		TS TS
Delete	Formula 21 (539 Green Formula 21 (104 BP) 7	-day	81	7		•••	8	6	
	Fracas (Piguet (1201 Subath oil	-day 1pervite)) . 1/3 oz	201 13	7 0ea	6	 6ea	21 26	0	
	Francide (208 BW) ve injection 400 mils	t 	225	0			25		vso
	Freshman (876 MP) aftershave		21	0	10	6	3	6	
	Gone Tan hairfix	••	$33 \\ 15 \\ 7$	0 0 6	16 7 3	6 6 9	5 2 1	6 6 3	
	refill	••	$\frac{45}{17}$	0 0	22	6 3	72	6 6	
	sponge-on deodorant refill		$\frac{31}{13}$	0 6	$\frac{4}{7}$	9 4 1	4	6	
	talcum Froidex (787 Macfarlan)		21	0	10	6	3	6	
	anti-freeze Fru-vita (690 Keldon)	½ gall 1 gall	$ \begin{array}{r} 147 \\ 282 \\ 28 \end{array} $	$ \begin{array}{c} 0 & \dots \\ 0 & \dots \\ 9 & \dots \end{array} $		•••	16 30 3	0 6 0	
	Furamide (143 Boots) tablets	· . 15	20 69	9 0	17	0		0	
	Fynnon (104 BP) balm	250	$\frac{76}{25}$	7ea 10	19 6	1 <u>1</u> ea 5 <u>1</u>	134 3	0 5	
	salt Gamgee (1073 Robinsor	n) tissue	23 7	4 211b		0	3 1	0	
	blue label BPC	2 oz 4 oz 8 oz	6 6	311b 811b 411b			24	33	
	pink label NHS No. 3	16 oz	6 5	1 ¹ / ₂ lb 10 [°] lb			8 1	2 0	
		4 oz 8 oz		31b 101b		•	1	9	
Delete	Genozo (502 Genatosan) Germolene (104 BP)		4 ste 35	7∦lb 5		0 1	6 4	2	
	Germoloids (104 BP)	· · · ·	$\frac{23}{7}$	10^4	51	0	3	0 0]	
	Gestanin (917 Organon)		15	8		•	1	9	
	tablets 5 mgm Glo (876 MP)	$\begin{array}{c} & 30 \\ 100 \end{array}$	$18 \\ 52 \\ 13$	6ea 0ea 6		9	27 78 2	9 0 3	
	Glow-Pot (1126 Servis)		13 38 9	9 0		9 3	4	9 3	
	Glycoids (1152 SK) Gon (1305 WB) tablets . Gossamer (164 Brandt) (9 27 60	0 0		•	37	0 6	
	Goya (532 Goya) perfume_cologne_spra		50	• ••					
	aerosol cedar wood cologne fo	30	$57 \\ 45$	6 3	22	0 1	9 7	6	
	pre-electric shave lotic		$33 \\ 11$	3 6	16 2 1	3 0	5 1	6	

in the CO

'Actifed'

Tablets Containing 2.5 mgm. triprolidine hydrochloride ('Actidil') and 60 mgm. pseudoephedrine hydrochloride in each tablet. *Bottles of* 25, 60/-100, 228/-500, 1040/-*Trade prices per dozen*

Syrup

Containing 0.88 mgm. triprolidine hydrochloride ('Actidil') and 21.3 mgm. pseudoephedrine hydrochloride in each fl. drachm of syrup base. Bottles of 4 fl. oz. 48/-20 fl. oz. 200/-Trade prices per dozen

Compound Linctus

Containing 1 mgm. triprolidine hydrochloride ('Actidil'), 20 mgm. pseudoephedrine hydrochloride and 7.5 mgm. codeine phosphate in each fl. drachm of syrup base. Bottles of 4 fl. oz. 48/-20 fl. oz. 200/-Trade prices per dozen

against respiratory congestion

'Actifed' Tablets and Syrup

Given ORALLY, 'Actifed' Tablets bring safe, rapid and prolonged relief without risk of secondary engorgement or inhibition of ciliary activity. 'Actifed' Syrup is now also available. A safe, palatable alternative to the tablets, it is especially suitable for children.

'Actifed' Tablets or Syrup is taken 2 or 3 times a day, the dosage being 1 tablet for adults and children over 12 years; $\frac{1}{2}$ tablet or 1 teaspoonful of syrup for children 2 to 12 years; $\frac{1}{2}$ to 1 teaspoonful of syrup for infants.

against cough

'Actifed' Compound Linctus

A pleasantly flavoured Linctus; combines the properties of 'Actifed' with the cough suppressant action of codeine phosphate; particularly useful if the cough is associated with respiratory congestion, e.g. in the common cold or in bronchial asthma.

'Actifed' Linctus is taken every 4 to 6 hours; 1 to 2 teaspoonfuls for adults, $\frac{1}{2}$ a teaspoonful for children of 2 to 12 years,

'Actifed'



BURROUGHS WELLCOME & CO (The Wellcome Foundation Ltd) LONDON

October 29, 1960

(HL0009)

This is new

- and it has a powerful new selling feature

Here's a new Philips 'Infraphil' with an important new feature — Concentrated Beam. In fact, Philips new 'Infraphil' provides infra-red heat in its most effective, most convenient form. It has a new bulb with a prismatic lens front and a special internal reflector that combine to *concentrate* the rays onto the actual pain area, giving faster, more effective relief. The new 'Infraphil' has also been re-designed for easy, comfortable use, no matter what part of the body is being treated.

Big advertising and sales support

Advertisements in selected magazines and TV participation spots will be widely used this winter to put over the new 'Infraphil'— with special emphasis on Concentrated Beam.

Colourful display material is available to carry the sales message right to the point of purchase. Dealer advertisements, with space for your name and address, are also available. And special mailings will tell doctors all about this superb new lamp. So, when heat treatment is prescribed, you'll be selling Philips new 'Infraphil'!



PHILIPS ELECTRICAL LIMITED · CENTURY HOUSE · SHAFTESBURY AVENUE · LONDON · WC2

October 29, 1960

THE CHEMIST AND DRUGGIST

Heath & Heather (588 H&H) dandelion coffee ½ lb	38	0			4	3	
1 lb	$\frac{68}{34}$	0		••	73	6 9	
slippery elm food $\frac{1}{2}$ b 1 b	20	0			24	23	
2 lb	$\frac{38}{68}$	$\begin{array}{c} 0 & \dots \\ 0 & \dots \end{array}$		•••	7	6	
unmalted 1 lb wholemcal malted 1 lb	$\frac{38}{38}$	$\begin{smallmatrix} 0 & \ldots \\ 0 & \ldots \end{smallmatrix}$		•••	4	3 3	
Helena Rubinstein (596 HR) liquid eye finer					9	6	
red sable brush	$\frac{1}{22}$	9 · ·	5	8 1	5 3	6 0	
H.F. (AS & CO)					3		
after-shave lotion bay rum	18 18	0	8	6 6	333	6	
brilliantine dandruff shampoo	$\frac{18}{18}$	0 0	8 4	6 3	3	6 3	
hair cream pre-shave	$\frac{18}{18}$	0 0	8 8	$\frac{6}{6}$	3 3	6 6	
Hide-It (876 MP) Humatin (938 PD) capsules 16	$\frac{10}{40}$	6 Oea	2	7 <u>1</u> 	1 60	6 0	тѕ
100	243	ica.		••	365	Ŏ	ĪŠ
Hydratene (276 C&C) tablets 25	30	0		••	3	9	t
250 Ibis 34 (884 NB) camera	160	0		•••	18 72	6	т
lbis 44 (884 NB) camera llosone (413 Lilly)	•••	••		••	78	6	
Pulvules 125 mgm 24 100	21 86	0ea 4ea		•••	31 129	6 6	TS TS
250 mgm 12	$\begin{array}{c} 417\\ 20 \end{array}$	0ea 4ea		••	625 30	6	TS TS
100	167	2ea			250	9	TS TS
500 Immac (655 ICC)	812	6ea			1218	9	19
hair removing cream Infurno (232 Carter)	44	2	22	1	7	0	
$\begin{array}{c} \text{massage cream} & 1\frac{1}{2} \text{ oz} \\ \text{insulex (658 Insulex)} \end{array}$	18	0	4	6	3	0	
ice bowl I-So-Gel (34 A & H) 200 gm	$\frac{22}{56}$	0ea 0	$\frac{2}{14}$	7ea 0	ນ 35 7	6 8	
Jane Seymour (665 JS)	7	0	14	6	1	2	
wonder cream	12	ŏ	6 6	0	2	Ō	
Jeypeat (671 Jeyes) compound trial	24	0			3	0	
pack of 8 pack of 4	$\frac{29}{27}$	$\begin{array}{c} 4 & \ldots \\ 4 & \ldots \end{array}$::	5 10	63	
sack Johnsons (672 Johnson)	24	0ea		••	36	Ó	
baby suds	17	3		••	1	11	
Kent (693 Kent) denture brush "Clinic"	28	0			3	6	
tooth brush ''Park Lane'' ex hard	$\frac{22}{23}$	$\begin{smallmatrix}0&\ldots\\4&\ldots\end{smallmatrix}$		•••	2	9 11	
Kodak (711 Kodak) Brownie Cresta 3 camera	292	0	73	0	42	7	
plastic case 925 Kolantyl (838 MN)	64	ŏ	16	ŏ	9	4	
gel6oz	40	0	10	0	5	10	
Kristina (996 PR&D) rollaway Kruschen (634 GH) salts	18 12	9ea 8	9 3	2^{-}	ea 37 1	6 8	
Ladye Jane (735 Laughton)	22	5	5	71	2	11	
curlers 20/3 hair pins 2 in 83/90	$\frac{10}{82}$	3 0	$\frac{2}{20}$	6 6	1	6 0	
Ledermycin (746 Lederle)	gro	oss	gro	055			
drops 10 mils	$\frac{7}{10}$	4ea 10ea		••	11 16	0 3	TS TS
16 oz	78	0ea		•••	117	ő	TS
Lenilax (1152 SK) Lion (205 Burgess)	12	0	3	0	1	э	
olntment 11 oz 3 oz	15 33	0 0	3 8	9 3	24	03	
Llp-Slik (876 MP) Litto (1282 VB)	10	6	5	3	1	9	
Cremard ointment Patchoid lotion	$\frac{20}{52}$	0	5	0 0	3 7	0 11	
		0	12				
Sebacold lotion	23	0 8 8	13 5	11	3	5	
Sebacold lotion special for dry hair	$23 \\ 38 \\ 13$	8 8 4	5 9 6	11 8 8	5 2	9 4	
Sebacold lotion	23 38 13 22 38	8 4 0 8	5 9 6 11 19		5 2 4 6	9 4 0 10	
Sebacold lotion	23 38 13 22 38 13 22	8 8 4 0 8 4 0	5 9 11 19 6 11	11 8 0 4 8 0	5 2 4 6 2 4	9 4 0 10 4 0	
Sebacoid lotion special for dry hair standard for oily hair Tintas colour restorer	23 38 13 22 38 13 22 38 22	8 8 4 0 8 4	5 9 6 11 19 6	11 8 0 4 8	5 2 4 6 2	9 4 0 10 4	
Sebacoid lotion special for dry hair standard for oily hair Tintas colour restorer Magnoids (1152 SK)	23 38 13 22 38 13 22 38	8 8 4 0 8 4 0 8	5 9 6 11 19 6 11 19	11 8 0 4 8 0 4	5246246	9 4 10 4 0 10	
Sebacoid lotion special for dry hair standard for oily hair Tintas colour restorer Magnoids (1152 SK) Margo's (798 Margolls) baby powder	23 38 13 22 38 13 22 38 22 12 7	8 8 4 0 8 4 0 8 0 0 0	5 9 6 11 19 6 11 19 11 3 1	11 8 0 4 8 0 4 0 4 0 0	524 624 64 1	9 4 10 4 0 10 9 3	
Sebacoid lotion special for dry hair standard for oily hair Tintas colour restorer Margoids (1152 SK) Margoids (798 Margolla) baby powder 8 oz hair lacquer spray bottle	23 38 13 22 38 13 22 38 22 12 7 12	8 8 4 0 8 4 0 8 0 0 0 2 6	$5 \\ 9 \\ 6 \\ 11 \\ 19 \\ 6 \\ 11 \\ 19 \\ 11 \\ 3 \\ 1 \\ 3 \\ 1 \\ 3 \\ 1 \\ 3 \\ 3 \\ $	$ \begin{array}{c} 11 \\ 8 \\ 0 \\ 4 \\ 0 \\ 4 \\ 0 \\ 9 \\ 1 \\ 1 \\ 2 \end{array} $	524624641 12	9 4 0 10 4 0 10 9 3 0	
Sebacoid lotion special for dry hair standard for oily hair Tintas colour restorer Magnoids (1152 SK) Margo's (798 Margolls) baby powder 8 oz hair lacquer spray bottle 2½ oz Mark Vardy (303 County)	23 38 13 22 38 13 22 38 13 22 38 22 12 12 7 12	8 8 4 0 8 4 0 8 0 0 0 2 6 0	59611196111331133	$ \begin{array}{c} 11 \\ 8 \\ 0 \\ 4 \\ 0 \\ 4 \\ 0 \\ 9 \\ 1 \\ 2 \\ 6 \end{array} $	524624641 1222	9 4 10 4 0 10 9 3 0 0	
Sebacoid lotion special for dry hair standard for oily hair Tintas colour restorer Magnoids (1152 SK) Margo's (798 Margolls) baby powder Soz hair lacquer spray bottle 21/2 oz Mark Vardy (303 County) after shave lotion cream foam shave	23 38 13 22 38 13 22 38 22 12 7 12 11 51 62	8 8 4 0 8 4 0 8 0 0 0 2 6 0 0 8	5 9 6 11 19 6 11 19 11 3 5 25 15	$ \begin{array}{c} 11\\ 8\\ 0\\ 4\\ 0\\ 9\frac{1}{2}\\ 6\\ 6\\ 8 \end{array} $	524624641 12288 8	9 4 0 10 4 0 9 3 0 0 0 0 6	
Sebacoid lotion special for dry hair standard for oily hair Tintas colour restorer Magnoids (1152 SK) Margo's (798 Margoils) baby powder Soz hair lacquer spray bottle 2½ oz Mark Vardy (303 County) after shave lotion cream foam shave deodorant Cologne	23 38 13 22 38 22 38 22 12 7 12 11 51 62 55	8 8 4 0 8 4 0 8 0 0 2 6 0 0	5 9 6 11 19 6 11 19 11 3 3 5 25	$ \begin{array}{c} 11 \\ 8 \\ 0 \\ 4 \\ 0 \\ 9 \\ 1 \\ 2 \\ 6 \\ 6 \end{array} $	524624641 1228	9 4 0 10 4 0 9 3 0 0 0	
Sebacoid lotion special for dry hair standard for oily hair Tintas colour restorer Magnoids (1152 SK) Margo's (798 Margolls) baby powder 8 oz hair lacquer spray bottle 21 oz Mark Vardy (303 County) after shave lotion cream foam shave deodorant Cologne pre-clectric shave lotion talcum puffer pack	23 38 13 22 38 13 22 38 22 12 7 12 11 51 62	8 8 4 0 8 4 0 8 0 0 0 2 6 0 0 8 10	5 9 6 11 19 6 11 19 11 3 5 25 15 27	$ \begin{array}{c} 11 \\ 8 \\ 8 \\ 0 \\ 4 \\ 0 \\ 0 \\ 9 \\ 1 \\ 2 \\ 6 \\ 6 \\ 8 \\ 11 \end{array} $	524624641 1228888	9 4 0 10 4 0 9 3 0 0 0 6 9	
Sebacoid lotion special for dry hair standard for oily hair Tintas colour restorer Magnoids (1152 SK) Margo's (798 Margolls) baby powder 8 oz hair lacquer spray bottle 2½ oz Mark Vardy (303 County) after shave lotion cream foam shave deodorant Cologne pre-clectric shave lotion taleum puffer pack Maw's (810 Maw) lanoline cream tube 438.00	$\begin{array}{c} 23\\ 38\\ 13\\ 22\\ 38\\ 13\\ 22\\ 38\\ 22\\ 12\\ 7\\ 12\\ 11\\ 51\\ 62\\ 55\\ 48\\ 8\end{array}$	8 8 4 0 8 4 0 8 0 0 2 6 0 0 2 6 0 0 8 10 10 0 7	5 9 6 111 19 6 11 19 11 3 5 25 15 27 27 24 4	$ \begin{array}{c} 11\\ 8\\ 9\\ 4\\ 0\\ 0\\ 9\\ 1\frac{1}{2}\\ 6\\ 6\\ 8\\ 11\\ 1\\ 0\\ 3\frac{1}{2} \end{array} $	524624641 122888887 1	9400 104009 3000 069996 6	
Sebacoid lotion special for dry hair standard for oily hair Tintas colour restorer Magnoids (1152 SK) Margo's (798 Margolls) baby powder 8 oz hair lacquer spray bottle 2½ oz Mark Vardy (303 County) after shave lotion cream foam shave deodorant Cologne pre-clectric shave lotion taleum puffer pack Maw's (810 Maw) lanoline cream tube 438.00 jar 438.01 baby pants	23 38 13 22 38 13 22 38 22 12 12 11 51 62 555 55 48 8 24	8 8 4 0 8 4 0 8 0 0 2 6 0 2 6 0 0 8 10 10 0 7 9	5 9 6 111 19 6 11 19 11 3 5 25 15 27 27 24	$ \begin{array}{c} 11\\ 8\\ 9\\ 4\\ 0\\ 0\\ 9\\ 1\\ 1\\ 2\\ 6\\ 6\\ 8\\ 11\\ 1\\ 0\\ \end{array} $	524624641 1222888887714	9 4 0 10 4 0 9 3 0 0 0 6 9 9 6 6 6 6	
Sebacoid lotion special for dry hair standard for oily hair Tintas colour restorer Magnoids (1152 SK) Margo's (798 Margolls) baby powder Soz hair lacquer spray bottle 2½ oz Mark Vardy (303 County) after shave lotion cream foam shave deodorant Cologne pre-clectric shave lotion talcum puffer pack Maw's (810 Maw) lanoline cream tube 438.00 jar 438.01	$\begin{array}{c} 23\\ 38\\ 13\\ 22\\ 38\\ 13\\ 22\\ 38\\ 22\\ 12\\ 7\\ 12\\ 11\\ 51\\ 62\\ 55\\ 48\\ 8\end{array}$	8 8 4 0 8 4 0 8 0 0 2 6 0 0 2 6 0 0 8 10 10 0 7	5 9 6 111 19 6 11 19 11 3 5 25 15 27 27 24 4	$ \begin{array}{c} 11\\ 8\\ 9\\ 4\\ 0\\ 0\\ 9\\ 1\frac{1}{2}\\ 6\\ 6\\ 8\\ 11\\ 1\\ 0\\ 3\frac{1}{2} \end{array} $	524624641 122888887 1	9400 104009 3000 069996 6	
Sebacoid lotion special for dry hair standard for oily hair Tintas colour restorer Magnoids (1152 SK) Margo's (798 Margolls) baby powder 8 oz hair lacquer spray bottle 2½ oz Mark Vardy (303 County) after shave lotion cream foam shave deodorant Cologne pre-clectric shave lotion taleum puffer pack Maw's (810 Maw) lanoline cream tube 438.00 jar 438.01 baby pants nylon, lace covered, "Sunday" polythene feeder 4 oz 303.13" mentholatum (363 Mentholatum)	23 388 13 22 388 22 38 22 238 22 12 7 12 11 51 62 55 55 48 8 24 44 437	8 8 4 0 8 4 0 8 0 0 2 6 0 2 6 0 0 8 10 10 0 0 7 9 0	5 9 6 11 19 6 11 19 11 3 5 255 155 227 224 4 12	$ \begin{array}{c} 11\\ 8\\ 9\\ 4\\ 0\\ 0\\ 9\\ 1\frac{1}{2}\\ 6\\ 6\\ 8\\ 11\\ 1\\ 0\\ 3\frac{1}{2} \end{array} $	524624641122888887714455	9400 10400 9300 069996 66666	
Sebacoid lotion special for dry hair standard for oily hair Tintas colour restorer Magnoids (1152 SK) Margo's (798 Margolls) baby powder baby powder 2½ oz Mark Vardy (303 County) after shave lotion cream foam shave deodorant Cologne pre-cleetric shave lotion taleum puffer pack Maw's (810 Maw) lanoline cream tube 438.00 jar 438.01 baby pants nylon, lace covered, "Sunday" polythene feeder 4 oz 303.13 Mentholatum (336 Mentholatum) deep heat rub	23 38 13 22 38 13 22 38 22 12 12 11 51 62 55 48 8 24 44 37 50		5 9 6 111 19 6 11 19 11 3 5 25 15 27 27 24 4	$ \begin{array}{c} 11\\ 8\\ 9\\ 4\\ 0\\ 0\\ 9\frac{1}{12}\\ 6\\ 6\\ 8\\ 11\\ 0\\ 3\frac{1}{2}\\ 4\frac{1}{2}\\ $	5246246411228888871452	9400 104009 3000 069996 6666	+e4P
Sebacoid lotion special for dry hair standard for oily hair Tintas colour restorer Magnoids (1152 SK) Margo's (798 Margolls) baby powder Soz hair lacquer spray bottle Mark Vardy (303 County) after shave lotion cream foam shave deodorant Cologne pre-clectric shave lotion talcum puffer pack Maw's (810 Maw) lanoline cream tube 438.00 jar 438.01 baby pants mylon, lace covered, "Sunday" polythene feeder 4 oz 303.13 Mentholatum (336 Mentholatum) deep heat rub	23 38 13 22 38 22 38 22 12 7 12 11 51 62 55 55 55 55 55 55 55 55 55 5	8 8 4 0 8 4 0 8 4 0 8 0 0 2 6 0 8 10 10 0 7 9 0 8 	5 9 6 11 19 6 11 19 11 3 5 255 155 227 224 4 12	$ \begin{array}{c} 11\\ 8\\ 9\\ 4\\ 0\\ 0\\ 9\frac{1}{12}\\ 6\\ 6\\ 8\\ 11\\ 0\\ 3\frac{1}{2}\\ 4\frac{1}{2}\\ $	5246246411228888871452	9400 10400 9300 069996 66666	† 34 B † 34 B

	15 mgm	30		10lea		•••	†84B
	Metercal (826 MJ) Miners (876 MP)	250 	37 71	0ea 0			6 ^{†84} B
	halr lacquer refill lipstick	••	$ 13 \\ 7 \\ 9 $	6 6 0	6 3 4	9 2 9 1 6 1	3 3 6
	lipstick/nail lacque mascara autobrush block	r duo	18 21 9	0 0 0	$\begin{smallmatrix}&9\\10\\&4\end{smallmatrix}$	0 3 6 3 6 1 6 1	0 6 6
	nall lacquer frosted		9 15	0 0	4 7	6 2	6 6
	remove shadow combo stick make-up	· · · · · · · · · · · · · · · · · · ·	7 9 9	6 0 0	$\frac{3}{4}$	6 1 6 1	3 6 6
	super liner talcum Misslyn (1169 GS&S)	 	$9 \\ 15$	0 0	4 7	6 1 6 2	6 6
	nail varnish cream pearl remov		$33 \\ 47 \\ 18$	0 6 0	$ \begin{array}{r} 16 \\ 23 \\ 9 \end{array} $	6 5 9 7 0 2	6 11 11
	Monastery (856 MH) (distributors 634 G						_
	Morny (862 Morny)	••	$\frac{10}{24}$	8 7	2 6	8 1 17 3	5 3
	luxury mist Blue Carnation, 1 Sandalwood, Fre	Pink Lilac, nch Fern,					
	Sandalwood, Fre June Roses, Lily Gardenia Mos-tox (814 M&B)	of the Vaile	y, 40	0		15	0
	Mu-Cron (657 IL)	size 2	52	0	F	6	6
	Mum (1113 S&B) for Mylodex 1 (195 Broo		20 34	6 0	17	$ \begin{array}{ccc} 1_{\frac{1}{2}} & 3 \\ 0 & 5 \end{array} $	0 6
	tablets	100 uibb) 10 mils	3 8	0ea 1ea		 12	1½ TS
	syrup My Tan (467 Fleet)	60 mils	12	0ea		18	0 TS
	(distributors 128 B after shave lotion Neo-Medrone Verider		90 john)	0	45	0 15	0
	Neostol (49 AF) tablets	5 gm	7 150	0ea 0		·· ·	. TS 8 †84A
	Neron (1274 VDL) plastic de luxe lan Theratherm infra					25	0
	Theratherm infra i Ultra Vitalux irrad New-Skin (104 BP)	red lamp liator	· · · · 20	··· ·· 3 ··		21 98 2	6 MC 6 MC 3
	Nicotex (797 MSG) nicotine stain remo		20	0	11	0 3	6
	Nikini (1073 Robinso sanitary garment pads	n) 12	$\begin{array}{c} 60 \\ 11 \end{array}$	0 3	3	0 6 1	11 3
Delete Delete	Nivea (1155 S&N) sunfilta cream sunspray oil aeroso	1					
Duut	Sunea sun filter cr sun tan oil	eme 344 346 343	10 16 70	6 6 0	5 8 35	3 1 3 2 0 11	9 9 5
	Noir (Weil) (960 AD) eau parfumee	2) 2 oz 080	9	6ea	4	7 <u>‡</u> ea 19	6
		4 oz 081 8 oz 082 6 oz 083	$16 \\ 26 \\ 46$	6ea 3ea 3ea	8 12 22	01ea33 91ea52 6ea 92	6 6
	perfume handbag	017 toz 016 toz 015	$ \begin{array}{r} 7 \\ 14 \\ 26 \end{array} $	9ea 9ea 3ea	3 7 12	9ea 16 2ea 30 9½ea53	0 0 0
	handbag coffret	1 oz 014 2 oz 013 SE	42 75 15	0ea 0ea 9ea	20 36 7	6ea 85 6ea 150 8ea 32	0 0 0
	"Secret de Venus"	bath oil 1 oz 060B 1 oz 061	20 37	9ea 6ea	10 18	1ea 42 3ea 75	0
	h shine a	2 oz 062 4 oz 063	$\begin{array}{c} 67\\127\end{array}$	6ea 6ea	$\frac{32}{62}$	11ea135 2ea255	0
	bobines s bobines Norvex (325 CRC)	ingle 060 12 060	$\frac{4}{50}$	3ea Oea	$\frac{2}{24}$	0½ea 8 4½ea102	6 0
	sanitary towels siz	e 0 1 2		6 11 11		··· 2 ·· 2 ·· 2	0 3 6
	soluble	3 4	$\frac{28}{34}$ 18	0 6 5		··· 3 ·· 3	1 9 0
	Nulon (1037 Reckitt) hand cream B.	· · ·	16	0	7	91 2	6
	Nycets (992 P&C) pa Old Spice (1131 Shull after shave lotion	ton)	20	0		2	6
	pack body talcum	371PM 393PM	$\frac{43}{35}$	0 0	21 17	0 7 1 6	6 2
	travel pack Pabalate (1071 Robin tablets with hydro	ns) cortisone					
	Padisha (Weil) (960 . eau parfumee	500	2608 9	0 6ea	396 4	0 380 7½ea19	4 TS 6
		4 oz 081 8 oz 082 6 oz 083	$\begin{array}{c} 16 \\ 26 \end{array}$	6ea 3ea 3ea	$\frac{12}{22}$	01ea 33 91ea 52	6
	perfume handbag	017 t oz 016	46 7 14	9ea 9ea	3 7	6ea 92 9ea 16 2ea 30	0
		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	26 42 75	3ea Oea Oea	12 20 36	9½ea53 6ea 85 6ea150	0 0 0

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October 29, 1960

552								D.MIDI	1
	handbag coffret	. SE	15	9ea	7	8ea	32	0	
	"Secret de Venus" bat		20	9ea	10	1ea	42	0	
	1 o: 2 o:	z 061	$37 \\ 67$	6ea 6ea	$\frac{18}{32}$	3ea 11ea	75	0	
	4 0	z 063	127 4	6ea 3ea	$\frac{62}{2}$	2ea	255 a 8	0	
	bobines 12	060	$5\overline{0}$	0ea	$2\overline{4}$	$4\frac{1}{2}e$	a 102		
	Pal (438 ER) razor set		47	8	11	11	6	10	
	Panets (1305 WB) tablet Papaverine (708 Knoll)	s 16	18	9		•••	2	1	
	tablets	$\frac{20}{250}$	$\frac{2}{22}$	6ea 9ea		•••	3 30	4	
	Parabai (1320 WP) tablets	. 100	90	0	22	6	13	2 †s1s4A	
		500	330	ŏ	82	Ğ	48	2 1s1s4A	
	Pargonyl (1087 Roussel) capsules 250 mgm	. 16	$\frac{40}{1}$	0ea			60	0 TS	
	Parnate (1153 SKF) tabl	ets 50 500	$\frac{14}{142}$	4ea 0ea	$\frac{3}{35}$	7ea 6ea	25	1 †s4B †s4B	
	Parstelin (1153 SKF) tablets	. 50	20	0ea	5	0ea	35	0 †s4B	
	PAS (572 HC) sodium ta	500 blets	190	0ea	47	6ea		†s4B	
	enteric coating 0.5 gm		$\frac{14}{27}$	10ea 9ea		••	19 37	9	
	sugar/enteric coating (15	0ea			20	0	
	optonia conting 0.75 gr	1000	$\frac{28}{19}$	0ea 9ea		••	37 26	4	
	enteric coating 0.75 gr	1000	37	6ea		· · ·	50	õ	
	Pasinah 6 PH (1303 War PAS sodium								
	1.67 gm+33.3 mgm I	180		10ea			52	3 TS	
	Paxette (884 NB)	540	96	0ea			144	0 TS	
	camera electromatic .	Ĺ	•••	•••			495 357	0	
	$super \dots I_i$	$\widetilde{\mathbf{L}}$ \mathbf{L}/\mathbf{K}	• •	• •			457 559	6	
	2	L/C	•••				599 739	6	
	2	L/X L/T		•••			799	6	
	2	${f BL/C} {f BL/X}$					759 899	6	
	2 1	$_{II}^{BL/T}$::				999 370	6 0	
	reflex I automatic	В	•••	•••			995 475	0	
	Paxina (884 NB) electromatic camera .			·			495	0	/
	Pears (509 Gibbs)	bath	12	$6\frac{1}{2}$	3	03	1	6	
	transparent soap Penicillin-V (413 Lilly)				0	-	7	6 TS	
	Penotrane (1305 WB)) mils	5	0ea		••			
	strong pessaries	$. 15 \\ . 15 $	$\frac{84}{96}$	$\begin{smallmatrix} 0 & \ldots \\ 0 & \ldots \end{smallmatrix}$		•••	10 12	6 ‡ 0 ‡	
	Persomnia (70 Aspro)	100	480	0		••	60	0 ‡	
	tablets	$. 12 \\ 27$	$\frac{17}{35}$	$\frac{10}{8}$	$\frac{4}{8}$	$\frac{5\frac{1}{2}}{11}$	2 5	6 0	
Delete Delete		$\frac{100}{250}$							
Durin	Pethidine (394 Duncan) tablets, 25 mgm	. 100	38	0			4	9plslDD	
		500 100	168 72	0		••	21 9	0plslDD 0plslDD	
	50 mgm	500	330	0		•••	41	3plslDD	
	Pethidine (1074 Roche) tablets 25 mgm	100	38	0			4	9p1s1DD	
	50 mgm .	500 100	$\frac{168}{72}$	$\begin{array}{c} 0 & \dots \\ 0 & \dots \end{array}$			21 9	0p1s1DD 0p1s1DD	
	Phensic (104 BP)	500	$\frac{330}{15}$	${}^{0}_{0}$	3	 9	41 1	3p1s1DD 11	
	Phosferine (104 BP)		31	2	7	91 92	4	0	
	liquid		$\frac{15}{33}$	0	$\frac{3}{8}$	9 3	1 4	11 3	
	tablets		$\frac{15}{33}$	0	3	9 3	1 4	11 3	
	Phyllosan (104 BP)			10	0	• •	3	9 0	
	P10 (000 D12)		116	$ \frac{9}{3} $			12	6	
		1020	53	3ea	$13 \\ 11$	0ea		0	
	vibratory massager Pin Quick (631 Hudnut)	1056	$\frac{47}{28}$	7ea 2	$\frac{11}{14}$	7ea 1	75 4	0 7	
Delete	Pitressin (938 PD) ampor Placentubex (451 F&J)	ules 0.5	mil 1 195	00 0	97	6	32	6	
	Plastabook (1247 TDC) first aid dressings 2 ¹ / ₂ de	OZ	50	0			2	6	
	Platine (350 Dana)	. trial	45	0	22	3	7	6	
	*	120A 120V	$\frac{10}{6}$	3ea 6ca	-3 5	1ea 2ea	12	6	
	Ponds (256 CPL)	tube	10	0ca 8	6	2ea 4	21	0	
Delete	cold cream	tube	10	6	5	3	1	8	
Delete	flowing cold cream .	tube	23	10 8		10	23	69	
Delete	vanishing cream	tube tube	$12 \\ 10$	86	$\frac{6}{5}$	$\frac{4}{3}$	2 1	0 8	
Delete	Pretty Quick (1240 Tokal	tube on)	15	10	7	1	2	6	
	(distributors 327 WC) eye shadow		6	6	3	3	1	0	
	mascara and pencil set	s	13^{0}	õ	6	6	2	ő	
	Pride (487 Furman) hair lacquer spray		21	6	10	9	3	9	

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	Primoids (1152 SK)	9	0	2	3	1	3	
	Primoids (1152 SK) Pro (721 LC) toothbrushes adult	20	0.		Ŭ	2	6	
	child	12	0.	:		1	6	
	Quantril (1248 Trevena) capsules 25	62	0.			7	9	
	Radian-A (1023 Radiol)	02	υ.	•	••		3	
e e	$1\frac{1}{4}$ oz 3 oz							
	2 oz	37	0	9	3	4	11	
	Radiol (1023 Radiol) liniment horses and dogs							
	1 gall	$\frac{35}{65}$	0ea	8	9ea		6	
	leg wash powders 6	26	0ea 0	$^{16}_{6}$	6	103	0 6	p1
	Rastinon (621 Horlicks) tablets	21	0ea					- †s4B
	500		0ea					1s4B
	Redcio (1215 Teasdale) lozenges linseed, licorice & chlorodyne	1	8		5§		3	
	4 lb	2	81b		9 ¹ / ₂ 1	b 5	ŏ	
	Roberts Windsor (1070 Windsor Hi-White family pack 5050) 154	0.			1	3	
		gre						
e	Robinson's (285 Colman) Sicilian lemon juice 12 ¹ / ₂ oz							
	25 oz	10	9			2	0	
	high protein cereal Robitussin (1071 Robins)	19	3.	•	•••	*	0	
	80 oz Rolleifler (637 Hunter) camera	1080	0	270	0	157	6	†s4₿
	Rolleiflex (637 Hunter) camera with f/2.8F Zeiss Planar lens with f/2.8F Xenotar lens	1695	8ea	413		2957		
	with f/2.8F Xenotar lens ever ready case	1580 80	2ea 8ea	$\frac{385}{19}$		2765		
	camera with 3.5F Planar lens	1463	2ea	356	8ea	2551	6	
	with 3.5F Xenotar lens ^b ever ready case	$1344 \\ 77$	0ea 4ea	$\frac{327}{18}$	7ea 10ea	2343		
	T camera with Tessar f/3.5			274				
	lens and meter without meter	$\frac{1124}{959}$	8ea 4ea	$\frac{274}{233}$	10ea		2	
е	ever ready case camera with 2.8E2 Planar lens	75	8ea	18		131	11	
e	camera with 2.8E2 Xenotar le	ns						
	Rolleiflex-Tele (637 Hunter) meter	165	6ea	40	4ea	288	8	
	camera case	95	0ea	23		165	8	
e	Sandosten (1098 Sandoz) all pro Scholi's (Dr.) (1108 SMC)	aucts						
	anti-pressure pad	$\frac{12}{15}$	0	7	 6	12	6	
	bath cubes pine (6) heel grip (pair)	6	0 8	'	4		6 101	
	Selvigon (1153 SKF)	60	0	15	0	8	9	
	tablets 30	72	0	18	0	10	6	
	Sheer Bliss (876 MP) Shurzine (1133 Shurzine)	12	0	6	0	2	0	
	ointment	14	0	3	6	2	0	
	Si Bon (150 Bourjois) bath crystals	83	0	41	6	14	6	
	cubes (6)	$\frac{34}{77}$	8 0	$\frac{17}{38}$	$\frac{4}{6}$	6 13	0 6	
	soap toilet (3)	46	6	11	$7\frac{1}{2}$	6	9	
	talcum	37	2	18	7	6	6	
	suppositories	41	0		••	4	7	
	50 tablets	$\begin{array}{c} 240 \\ 1224 \end{array}$	0		•••	26 136	8 0	
	Silvikrin (303 County)	10	0	ß	41	2	0	
	hair cream	$\frac{12}{19}$	9 2	6 9	4½ 7	3	0	
	hair dressing	$\frac{18}{28}$	$\frac{1}{8}$	$\frac{9}{14}$	${}^{0\frac{1}{2}}_{4}$	2	10 6	
	hair tonic	18	1	9	$0\frac{1}{2}$	2	10	
	pure	28 79	$\frac{8}{10}$	$\frac{14}{39}$	4 11	4 12	6 6	
	Simocitron (317 CS)	27	0	13	6	4	6	
	Simpkin's (1141 Simpkin)	42	0	21	0	1	v	
	glucose pastilles blackcurrant and glycerin							
	2 oz	12	0		• •	1	6	
	glyccrine, lemon and honey 2 oz	12	0			1	6	
	medicated pastilles antiseptic blackcurrant	12	0	3	0	1	9	
	bronchial	12	0	3	0	1	9	
	Bronco-Pines cherry linctus	$13 \\ 12$	6 0	33	5 0	2 1	0 9	
	Dilly Duckling	12	Ō	3	0	1	9	
	glycerine of thymol T.C.L.	$\begin{array}{c} 12 \\ 12 \end{array}$	0	3333333	0	1	9 9	
	Skenna (1152 SK) pastilles	-9	Ō	2	3	1	3	
	Smith Kendon (1152 SK) lozenges							
	bismuth co., BPC	$\frac{16}{12}$		4	$\begin{array}{c} 1 \\ 0 \end{array}$	2 1	3 9	
	bronchial	12	0	330	0	1	9	
	cinnamon formalin	$\substack{12\\12}$	0 0	$\frac{3}{3}$	0	1	9 9	
	formalin menthol and	12	0	3	0			
	cinnamon glucose	10	6			1	9 3	
	iodised throat linseed, liquorice and	12	0	3	0	1	9	
	chlorodyne	12	0	3	0	1	9	
	sulphur 8moothie (876 MP)	$\frac{12}{15}$	0 0	3 7	$\begin{array}{c} 0 \\ 6 \end{array}$	1 2	9 6	
	8mooth Touch (385 DG)			90	e	-		
	hand lotion Softies (1389 Velvet)	57	0	28	6	9	6	
	3-ply hankies 16	47	0		••		6	
		gro	55					

October 29, 1960

THE CHEMIST AND DRUGGIST

oun	5001 29, 1900				-	01.	
	Spa (1167 Spa) sets ladies	95	a	16	4	9	6
	Rosalind Sparklets (183 BOC)	65	6				
	syphons De Luxe Globemaster	$\frac{867}{927}$		$\frac{105}{113}$	$\frac{8}{0}$	105 112	0
	Hostmaster	618	0	75	4	75	0
	Sparkling Spa (450 Farthing) formula 3	21	0	5	3	3	6
	Spontex (1174 Sponcel) car sponge ex/large C/2	40	7	10	11	5	11
	Sporostacin (922 Ortho)	180	0	40	0	25	10
	cream with applicator tube only	160	0	40	0	23	4
	Sporti IV (645 Ilford) camera case	$\begin{array}{c} 342 \\ 120 \end{array}$	0 0	$\frac{86}{30}$	$\begin{array}{c} 0\\ 0\end{array}$	49 17	8 5
	gift pack Spree (955 Pepsodent)	46	8ea	11	0ea	81	0
	fruit squash sachet	29	3		••		3
	Steiner (1188 Steiner)	gro					
	hand milk tube	21	0	10	6	3	6
	Stelabid (1153 SKF) tablets	144	0	36	0	21	0 †s4B
	Steradent (1037 Reckitt) 250	$\frac{95}{28}$	0ea 0	$23 \\ 6$	9ea 10	166 3	3 †s4B 9
	Sterispon (34 A&H) gelatin spor	nge	0			10	
	No. 2 $20 \times 10 \times 0.1$ cm 1 No. 4 $10 \times 10 \times 0.5$ cm 6	$100 \\ 46$	0 4ea			12 69	6 9
	Stratton (735 Laughton) Empress Lipview 277/EMB					21	0
	Streptotriad (971 P&MB)						
	granules for $1\frac{1}{2}$ oz 25	56 66	0		::	7 8	0 p1s4B 3 p1s4B
	100 500	$230 \\ 1020$	0 0		••	28 127	9 p1s4B 6 p1s4B
	Styptol (708 Knoll)			-			
	tablets 20 200	$\frac{36}{25}$	0 6ea	9 6	$ \begin{array}{c} 0 \\ 4\frac{1}{2} \end{array} $	4 ea 40	9 s1 4½ s1
	Sunset (1205 S & C) electric blankets						
	Little Gem	44	2ea	10		72	9
	Double Gem type SS	58 53	8ea 5ea	$14 \\ 13$	4ea 0ea	1 96 1 88	8
	DS	70 73	8ea 2ea	17 17	3ea 10ea	116	6
	VR1	64	10ea	15	10ea	106	10
	VR2 VR3	87 90	8ea 1ea	$\frac{21}{22}$	0ea	144	6
	HS/3 HD/3	$\begin{array}{c} 83 \\ 105 \end{array}$	4ea 2ea	$\frac{20}{25}$		137 173	4 2
	Suntax (324 Crookes) vet					33	0
	100 mils Sure Shield (549 Guest)	264	0				
	lozenges iodised throat	$\frac{8}{15}$	$\frac{4}{0}$	$\frac{2}{3}$	$\frac{1}{9}$	1	3 3
	pastilles glycerin & thymol	11	6	2	$10\frac{1}{2}$	1	9
	Swandown (1218 HT) trio pack	12	4	6	2	2	1
	Sylvia (339 CG) sanitary towels, size 0	20	0			2	2
	size 1	$\frac{10}{21}$	${}^{11}_{6}$::	1	21/2 4
	size 2	25	3		••	2	9
	Tabloid (208 BW)	31	3		••	3	5
	cyclobarbitone gr 3 100 500	$\frac{54}{226}$	$\begin{array}{c} 0 \\ 0 \\ \end{array}$::	6 28	9 †s1s4A 3 †s1s4A
	1000 5000	$\frac{432}{2120}$	0		::	54 265	0 †s1s4A 0 †s1s4A
	pethidine HCI 25 mgm 100	38	0			4	9 †s1DD
	50 mgm 100	$168 \\ 72$	$\begin{array}{c} 0 \\ 0 \\ \end{array}$::	21 9	0 †s1DD 0 †s1DD
Delete	500	33 0	0		••	41	3 †s1DD
Dunn	Tabu (350 Dana)	45	0		0	7	e
	perfume trial 104A	$45 \\ 6$	0 3ea	22 3	3 1ea		6 6
	104V toilet soap (3) 500	$10 \\ 6$	6ea 0ea	$\frac{5}{1}$	2ea 6ea		0 6
	Tace (838 MN) tablets 30	164	0		••	20	6 †s4B
	100 Talika (1169 GS&S)	504	0		••	63	0 †s4B
	eyelash grower	$\frac{48}{96}$	0	$\frac{24}{48}$	0	7 15	11 11
	Tan (388 Cussons) 5481	49	9	24	3	8	6
	Tanderil (501 Geigy) tablets 100 mgm 50	14	0ea	3		1 24	6 †s1s4A
	250 1000	$\frac{65}{256}$	8ea 9ea	$16 \\ 64$	5ea	114	11 †s1s4A 4 †s1s4A
	Taractan (1074 Roche)						
	ampoules 30 mgm 6 50	$\frac{74}{43}$	0 4ea	18 10	6 10ea		9 ¹ / ₂ 10
	tablets 15 mgm 50 250	$90 \\ 30$	0 0ea	$\frac{22}{7}$	6 6ea	13 1 52	11/2 6
	Tetrazets (837 MSD) 12 Thermos (1226 Thermos)	36	0			4	6 †s7
	vacuum jars 607					28	3
	608 620	::			::	96 47	1 6
	81 82				••	103 136	2
	jugs 65					14	9
	34 54				::	41 43	0 8
	54Q 45				::	46 49	2 8
	45Q 29	••	••		••	57 85	4 2
	29Q				::	102	11
	70					102	8

	Thoracin (769 LH) oin			20	0	7	R	4	0
	Thram (506 Gerhardt)		loz	$\frac{30}{76}$	${\stackrel{0}{0}}$	7	6 	9	2 6
	Tofranil (501 Geigy) tablets 10 mgm	••	$\begin{array}{c} 60 \\ 250 \end{array}$	$\begin{array}{c} 110 \\ 430 \end{array}$	$\stackrel{0}{\overset{\ldots}{}}$		•••	13 53	9 †s4B 9 †s4B
	25 mgm	1	000 50	$1580 \\ 185$	0			197 23	9 †s4B 6 †s4B 1½†s4B
	25 fight		200	710	0		••	88 412	9 †s4B
	Tress (525 Golden)		000	$3300 \\ 10 \\ 15$	0	5	0	1	8
	Trill (525 Golden) tube Trio (285 Colman)	e		15	0	7	6	2	6
	fruit squash Triotussic (1303 Wand	er)		31	0		•••	3	3
	syrup	·. 4 20) oz	$\begin{array}{c} 60 \\ 256 \end{array}$	0 0	$15 \\ 64$	0	8 37	9 †s7 4 †s7
	tablets	•••	$\begin{array}{c} 50 \\ 250 \end{array}$	$\begin{array}{c} 64 \\ 272 \end{array}$	0 0	$\frac{16}{68}$	$\begin{array}{c} 0\\ 0\end{array}$	9 39	4 †s7 8 †s7
		; 100 r	nils	450	0			50	0
Delete	Tycoon (705 Kirby)	250 r	nus						_
	after shave lotion deodorant	::		$\frac{32}{32}$	0	$\begin{array}{c} 16\\ 16\end{array}$	0 0	6	0
	hair dressing medicated shampoo	::		$\frac{32}{32}$	0	$\begin{array}{c} 16 \\ 16 \end{array}$	$\begin{array}{c} 0\\ 0\end{array}$	6 6	0
	pre-electric shave lo	tion		$\frac{32}{32}$	0	$\frac{16}{16}$	0	6	0
	presentation packs of	of			0	34	0	12	6
	Urelim (1305 WB)		100	68 26			6ea		6
	tablets 0.5 gm		$\begin{array}{c} 100 \\ 500 \end{array}$	116^{-20}	0ea 8ea	$\frac{6}{29}$	2ea	204	2
	Uvistat (1305 WB) cream	50	$\mathbf{g}\mathbf{n}$	60	0	15	0	8	9
	Valderma (343 DH) talcum powder	•••		16	5	8	$2\frac{1}{2}$	2	6
	Vanquin (958 PD) suspension		loz	56 790	0	$\frac{14}{180}$	0	8	2
	Vaseline (256 CPL)	10	5 OZ	720	0	7	$0 \\ 2\frac{1}{2}$	105 3	0 11
	medicated shampoo Vecortenol (262 CIBA)		nils	$\frac{28}{11}$	10 4ea	'	_	17	0 TSVPO
	(vet) 100 mgm 250 mgm	10 1			10ea			38	9 TSVPO
	Veno's (104 BP) cough mixture		10	31	2	7	$\frac{4\frac{1}{2}}{6}$	4	0
	Viacutan (1305 WB) t	une	$ \frac{10}{30} 50 $	$\frac{42}{72}$	0 0	$\frac{10}{18}$		6 10	11 6
Delete	Villescon (154 B) liqui	d 4	50 oz	58	0	14	6	8	5 <u>1</u>
	Visa (Piguet (1201 Sup bath oil	ł		13	0ea	6	6ea	26	9
	Voltage (385 DG) bath essence			111	0	55	6	18	6
	dusting powder	::		$\frac{126}{150}$	0 0	$\begin{array}{c} 63 \\ 75 \end{array}$	$\begin{array}{c} 0\\ 0\end{array}$	21 25	0
	perfume Warfarin (1305 WB)	••		315	0	157	6	52	6
	sodium tablets 20 mg Wet and Set (220 CAL	⊿G-)	50	360	0		••	45	0
	hair curling tissues Whisper (1326 Whispe	r)		17	6	8	9	2	11
	setting mist sachet aerosol			6 33	0 0	$\frac{3}{16}$	$\begin{array}{c} 0 \\ 6 \end{array}$	1 5	3 6
	Yardley (1355 Yardley hand cream airflow	^{r)} 1	450	47	0	$\overline{23}$	6	7	10
	Yaxa (261 Christy) perfumed deodorant			19	6	9	9	3	3
	perfumed roll-on refill			$\frac{27}{21}$	0 0	13 10	6 6	4 3	6
	Yeast-Vite (104 BP)	••		$\frac{15}{33}$	0	3	9 3		11
	Zap (1070 Windsor) pumice soap	3	000		10				
	Zenoids (1152 SK)			gro 12		3	0	1	9
	Zibeline (Weil) (960 A	DP) oz	080	9	6ea	4	7 ¹ / ₂ e:	•	6
	4	ΟZ	$ 080 \\ 081 \\ 082 $	$ \frac{16}{26} $	6ea 3ea	$\frac{3}{12}$	0 ¹ 2ea 9 ¹ 2ea	133	6
	16	ΟZ	083 017		3ea	22	6ea 9ea	92	6
		ΟZ	016	14	9ea 9ea 2oo	3 7	2ea	30	0
	1	oz	015 014	$\frac{26}{42}$	3ea 0ea	$\frac{12}{20}$	9 <u>1</u> ea 6ea	85	0
	handbag coffret		013 SE	$\frac{75}{15}$	0ea 9ea	36 7	6ea 8ea	32	0
	1		016D 015D	$17 \\ 29$	6ea 0ea	$\frac{8}{14}$	6ea 2ea	58	0
	refill 1/2	OZ (015R 012	$\frac{26}{135}$	0ea 0ea	$\frac{12}{65}$	8ea 10ea	52	6 0
	de luxe bottle in cof "Secret de Venus" b	fret 1	loz	90	0ea		10ea		ŏ
	1	OZ OZ	060B 061	$\frac{20}{37}$	9ea 6ea	$\frac{10}{18}$	1ea 3ea	42 75	0
	2	oz	062 063	$\frac{67}{127}$	6ea 6ea		11ea 2ea	135	0
		igle	060 060	4 50	3ea 0ea	$\frac{2}{24}$	0}ea		6
	AMENDMENT						-		

AMENDMENTS TO KEY TO SUPPLIERS:
(164 Brandt) = R. BRANDT & CO. (MANUFACTURING), LTD., 25 Sheldon Road, London, N.W.2. Gladstone 9757.
(183 BOC) = BRITISH OXYGEN CO., LTD., Sparklets Works, Queen Street, London, N.17. Tottenham 0881.
(220 CALG) = C.A.L.G. ENTERPRISES, LTD., 34 Upper Brook Street, London, W.1. Hyde Park 0148.
(257 Chilton) = CHILTON ELECTRIC PRODUCTS, LTD., Hungerford. Berks, Hungerford 237.

- (315 Crater) = CRATER PRODUCTS, LTD., Lower Guildford Road, Knaphill, Woking, Surrey. Brookwood 2571.
 (325 CRC) = C. R. CROSSKILL & SONS, LTD., Calvert Works, Norwich. Norwich 27101.
- (385 DG)=DOROTHY GRAY, LTD., 565 Kingston Road, London, S.W.20.
- Libertv 3471 (461 FL)=FIBRENYLE, LTD., 157 Dukes Road, London, W.3. Acorn
- (467 Fleet) = FLEET LABORATORIES, LTD., 675 Mount Pleasant Road, Toronto 7, Ontario, Canada. Delete (605 Hill's)=HILL'S BALSAM, LTD.,
- (605 Hill's) = HILL'S PHARMACEUTICALS, LTD., Spring Bank Works, Nelson, Lancs. Nelson 65321,
- (658 Insulex) = INSULEX, LTD., 67 Westbourne Grove, London, W.2

- (655 Insulex) = 1NSULEX, LTD., 67 Westbourne Grove, London, w.2 Park 3424.
 (826 MJ)=MEAD JOHNSON, LTD., 10 Upper Grosvenor Street, London, W.1. Grosvenor 6944.
 (861 MPC)=MORGANS POMADE CO., LTD., 122 Maidstone Road, Sideup, Kent. Foots Cray 7878.
 996 PR&D)=PLASTIC RESEARCH AND DEVELOPMENT, LTD., 8 Park Road, London, N.W.1. Paddington 2172.
 (1115 SI)=SCHICK INCORPORATED (UK), LTD., 86a Brook Street London W 1, Grosvenor 5550
- (1158 SD)=SCHICK IACORFORMED (OK), LID., Sola Block Stretc London, W.I. Grosvenor 5559.
 (1158 Sodastream)=SODASTREAM, LTD., 22 Oval Road, London, N.W.I. Gulliver 4421.
 (1247 TDC) = TRICO DEVELOPMENTS CO., LTD., Great West Road, Brentford, Middlesex. Isleworth 3464.
- (1248 Trevena) = TREVENA, LTD., 20 Grosvenor Place, London, S.W.1. Sloane 0676.
 (1274 VDL)=V-DEVELOPMENT, LTD., 22 Clifton Road, London, W.9. Cunningham 0701.
- W.9. Cunningham 0701. (1326 Whisper) = WHISPER COSMETICS, 175 Bow Road, London, E.3. Advance 5546.

pharmacist, Addenbrooke's Hospital, Cambridge) replied to the toast of "The Visitors" proposed by Mr. C. E. Hughes.

BRANCH AND OTHER EVENTS

PLYMOUTH

Bacteriology in Pharmacy

STERILISATION, disinfection, bacterio-stats and immunology were discussed by MR. E. ADAMS in an address to the Plymouth Branch of the Pharmaceuti-cal Society on "Bacteriology in cal Society on "Bacteriology in Pharmacy" recently. After describing the official methods of sterilisation Mr. Adams referred to the many factors that influenced the action of disinfectants on bacteria, particularly the concentration and type of bactericide used. The evaluation of bactericides was frequently carried out by comparison with a standard such as phenol, under carefully controlled conditions such as temperature and time of action. Many bactericides were too toxic for paren-teral use, and could only be used topically. Bacteria developed resistance towards some bactericides. To reduce that tendency in the treatment of tuberculosis, two of the three drugs streptomycin, isoniazid, and sodium para-amino salicylate were given concurrently, and the third kept in reserve should resistance develop. Several substances would inhibit the growth of

bacteria and were used in multidose injections to prevent the growth of organisms accidentally introduced on removal of a dose, including chlorocre-sol, phenyl mercuric nitrate, and phenol. They also caused the death of a proportion of the bacteria. Mr. Adams described how the minimal bacteriostatic concentration of an antiseptic could be determined by prepared a series of dilutions of the substances in nutrient broth, inoculating with an arganism and incubating. When no tic could be determined by preparing opacity was produced, inhibition had occurred. Mr. Adams also referred to problems of immunity.

LONDON

Gordon's Exiles

NEARLY 100 former students of the School of Pharmacy, Aberdeen, members of Gordon's Pharmacy Exiles' Association (for former students now resident in southern England) attended a dinner-dance in London on October 13. MR. ERIC THORPE (head of the pharmacy department, Portsmouth Technical College) was guest of honour. In a witty speech he proposed the toast to the Association, recalling his years as a lecturer in the School of Pharmacy, Aberdeen. Replying, DR. CHARLES CLARK (chairman) welcomed the guests, and amusingly paraphrased the "birth"

pangs of the Association. The evening's programme included a cabaret and an exhibition of Highland dancing, the event proving enjoyable and a happy augury for the Association's future functions.

EXILES AT DINNER: Some of the guests at the recent dinner-dance held in London by Gordon's Pharmacy Exiles' Association.



October 29, 1960

THIS WEEK'S CHANGES NEW and altered entries notified for the first time.

A = Advanced. R = Reduced.

	Entries new this week a	ire m	arked	th	us:-	•	,
A	Andrews (976 PS&T)						
	liver salt 4 oz	16	0	4	0	2	1
	8 oz		$\frac{0}{8}$	$\frac{4}{6}$	3 5	2 3 3	1 3
	diabetic 8 oz	-29	8	7	5	3	11
	Colgate (280 CP)						
	shaving stick refill	10	1	-2	6	1	4
4							
	rose-hip syrup 6 oz	22	6			2 4 3	6
	12 oz					4	6 3 6
	Hi-lift (1028 Rapidol) bleach	21	0	10	6	3	6
	Inecto (1028 Rapidol)						
	creme hair lightener	20	0	10	0	3	4
R	Maclean (104 BP)	_	_	4			
	indigestion tablets	.7	-7	$\frac{1}{3}$	91 53 7 등	1	0
			11	3	54	1	10
		26	6	- 6	7출	3	6
	Max (855 Mondart)	0.0	0		0.1	_	
•	snow spray 24 8 oz	92	6	22	$6\frac{1}{2}$	5	11
A	Neoran (982 Pierce)	10	0	10	0	70	
	liquid 1 gall						0 9
	tablets	300	0	75	0	43	9
	Palmolive (280 CP)	10	1	2	6	1	4
A	shaving stick refill	10	1	2	0		4
1	Paximat S (1017 PO) projector electric slide with 85 mm						
	f/2.8 lens	503	4ea			755	0
	V-Cil-K Sulpha (413 Lilly)	909	40a		•••	100	0
		5	10ea			8	9†s4BTS
0	pacutatine suspension of mins	9	roca		••	0	124DT2

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MANCHESTER

Stereophonics

An express train roaring through the

room; an electronic circuit of the moon; opera in front, to the rear and

at the side of the listener! Those were

a few of the experiences served up

by Mr. A. Wilson (Rare Records, Ltd.,

Manchester) on September 27 to members of the Manchester Branch of the

Guild of Public Pharmacists, Contrast-ing effects were demonstrated with a

good-quality portable gramophone, a

popular stereophonic outfit and a de-

luxe Hi-Fi apparatus that was well be-

THE mayor and mayoress of Peter-

The mayor and mayoress of Peter-borough (Councillor and Mrs. J. A. Savage) were among the fifty-eight guests and members who attended the annual dinner of Peterborough and District Chemists' Association, held in Peterborough, on October 11. The pre-cident (Mr. A. A. Jones) was in the

sident (Mr. A. A. Jones) was in the chair and proposed the toast of "The City" to which the mayor replied. Mr.

H, E, Hales proposed "The Associa-tion" and the reply was from the president. Mr. S. J. Hopkins (chief

yond the reach of most people.

Civic Heads in Attendance

PETERBOROUGH

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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, OCTOBER 26: The shortage of CRUDE DRUGS on the spot continued during the week although the tally men's strike in the London docks was over. Merchants were still awaiting their consignments that had been diverted to some other British as well as Continental ports.

Trading conditions were quiet, meanwhile prices were substantially unaltered on the week. Cochin GINGER eased 5s. per cwt. for shipment and Brazilian MENTHOL was sixpence per Ib. lower both spot and forward. Tanganyikan PAPAIN was a little firmer reflecting the unsettled conditions in the Congo, as well as the difficulty in obtaining supplies from Ceylon. Although no business was done, the value of American LOBELIA HERB was put at around 8s. per lb.; Dutch new crop material due to arrive shortly was offered at 4s. 9d. In PHARMACEUTI-CAL GUMS, ACACIA was lower, but TRAG-ACANTH was sharply advanced.

In ESSENTIAL OILS, CITRONELLA was slightly dearer for shipment although the spot price did not move in sympathy. LEMONGRASS was lower by three-halfpence per lb. for shipment. American PEPPERMINT continued to firm but Bourbon GERANIUM was lower by 15s. per lb.

The lower prices for resublimed IODINE noted in the report last week did not last more than a day or so because crude iodine was shortly afterwards increased by 2s. 4d. per kilo. Thus new schedules are now in operation not only for the resublimed iodine but for IODIDEs and IODOFORM. POTAS-SIUM IODIDE for instance is now 19s. 3d. per kilo for 50-kilo lots, against 16s. recently. Powdered CITRIC ACID was increased by 5s. per cwt., the granular, however, is unchanged.

Pharmaceutical Chemicals

p-AMINOSALICYLIC ACID. — SODIUM, 17s. 6d. per kilo for 1,000-kilo lots.

Ammonium acetate. — 1-cwt. lots of B.P.C. 1949, 4s. 5d. per lb.

AMMONIUM BICARBONATE.—B.P. powder, £50 5s. per ton; CARBONATE, £81 10s. for lump and £85 10s. for powder.

AMMONIUM CHLORIDE. — One-cwt. lots B.P. powder, 105s. per cwt.; technical, 42s. 6d.

ANEURINE HYDROCHLORIDE. — 1-kilo, £9 5s.; 10-kilos, £8 17s. 6d. per kilo.

ASCORBIC ACID.—One-kilo, £3 12s.; 10 kilos, £3 10s. per kilo. SODIUM ASCORBATE is offered at the same price.

CALCIFEROL.—B.P., 3s. 3d. per gm. for 1-kilo lots.

CALCIUM CARBONATE.—B.P. light precipitated powder, 1-ton lots, £33 per ton in free bags, ex works.

CALCIUM CHLORIDE. — B.P.C. fused, granulated, 10¹/₂d. per lb. in 1-cwt. lots.

CALCIUM GLUCONATE. — Three-cwt. and upwards, 3s. 6d. per lb.; 1–2 cwt., 3s. 7d. CALCIUM PANTOTHENATE. — £7 10s. per

kilo. Calcium succinate.—10s. 6d. to 12s. per

lb., as to quantity. SUCCINIC ACID is from 10s. 6d. to 12s. 3d. per 1b.

CHALK.—Prepared powder B.P., £22 per ton for minimum 1-ton cx works.

CITRIC ACID. — Domestic powder (in kegs) per cwt. 1–4-cwt. lots, 225s. per cwt. 5-cwt., 221s. In paper bags, 5-cwt. lots are

213s. Crystals are 5s. per cwt. less than the above.

CYANOCOBALAMIN.—25-gm. lots, £23 per gm., and 1 gm., £24.

ETHER.—Per lb. in winchesters: TECH-NICAL B.S.S., and SOLVENT, 5-cwt. 2s. 7d.; (4s. 1d. per litre). In drums the price is 2s. 2d. per lb. ANÆSTHETIC, B.P., 5-cwt., 3s. 10d.; 10-cwt., 3s. 9d.

FOLIC ACID. — B.P. and U.S.P., 1s. per gm. 1-kilo lots; smaller lots, up to 1s. 6d. per gm.

GLYCERIN. — Pharmaceutically pure (s.g. 1·2627):—

Annual purchases or spot lots of	Under 1 cwt.	l cwt. and under 5-cwt.	5-cwt. and under 1 ton	1 ton and under 5 tons	5 tons and under 25 tons
Per cwt,	s. d.	s. d.	s. d.	s. d.	s. d.
Drums					
14-lb.	281 0	276 0	272 6	268 0	265 6
28-lb.	279 0	274 6	270 6	266 0	263 6
56-lb,	275 0	270 6	266 6	262 0	259 6
TINS					
1-cwt.	1 —	254 6	250 6	246 0	244 6
$2\frac{1}{2}$ -cwt.		251 6	248 0	243 6	242 0
5-cwt.			247 6	243 0	241 6
10-cwt.	I — .	—	246 6	242 6	241 0

For 25 tons and upwards the price is from 265s. 6d. to 240s. as to containers. Bulk deliveries in tank wagons from 326s. to 237s. 6d. Technical grade glycerin s.g. 1-2627 is 5s. per cwt. less than above.

lodides. — (Per kilo). Potassium, 50kilo lots 19s. 3d.; sodium, 24s. 3d. for 25-kilo lots.

IODINE.—Resublimed in less than 50-kilo lots, 25s. 4d. per kilo. Minimum delivered rate for CRUDE is 17s. 4d. per kilo.

LEAD ACETATE.—B.P. crystals, 225s. per cwt.

MENAPHTHONE. — (One-kilo-lots). B.P. 170s. per kilo; ACETOMENAPHTHONE, B.P., 170s.; WATER-SOLUBLE (menadione sodium bisulphite, U.S.P.), 180s.

NICOTINAMIDE. — (Per kilo). One-kilo, 6s.; 10 kilos, 59s.; 50 kilos, 57s.

NICOTINIC ACID. — O'ne-kilo, 39s.; 50-kilos, 36s. per kilo.

NIKETHAMIDE.-Per kilo, 100s.

Ротаssium асетате. — (Per lb.) 1-cwt. lots, 3s.; 5-cwt., 2s. 8d.; 10-cwt., 2s. 6d.

POTASSIUM BICARBONATE.—B.P. powder, 110s. per cwt. 1-4-cwt. lots and 105s. per cwt. for 5-cwt. and over.

POTASSIUM BROMATE. — In 5-cwt. lots, 5s. 3d. per lb.

POTASSIUM CHLORIDE. — In l-cwt. lots B.P., 1s. 6d. per lb.

POTASSIUM HYDROXIDE.—B.P. sticks are from 6s. 8d. per lb. and pellets, 4s. 6d.; technical flake, 1s. 10d.

POTASSIUM 8-HYDROXYQUINOLINE SUL-PHATE. — 1 kilo is 47s. 1d. and 50 kilos, 44s. per kilo.

POTASSIUM NITRATE. — Pharmacopœial quality, 100s. per cwt. (crystal or powder) in 1-cwt. lots.

POTASSIUM PERMANGANATE. — B.P. in 1-cwt. lots, 1s. $11\frac{3}{4}d$. per lb. Technical 209s. per cwt. and £198 per ton.

POTASSIUM QUADROXALATE. - One-cwt., 3s. 6d. per lb.

POTASSIUM SULPHATE. — B.P. 1949, onecwt. lots, 1s. 2d. per lb.

POTASSIUM THIOCYANATE. — One-cwt., 5s. 6d. per lb.

PROCAINE HYDROCHLORIDE.—100-kilo lots, 45s. per kilo.

PYRIDOXINE. — One-kilo, £50 10s. per kilo; 10 kilos, £49.

PYROGALLIC ACID. — One-cwt., pure crystals, 24s. 6d. per lb.; resublimed 26s. 6d.

QUININE. — 1,000-oz. lots: —ALKALOID, 3s. per oz.; SULPHATE, B.P., 1932, 1s. 114d.; SULPHATE, B.P., 1958, 2s. 24d.; BISULPHATE, 2s.; DIHYDROCHLORIDE, 2s. 9d.; HYDRO-CLORIDE, 2s. 64d.; ETHYL CARBONATE, 4s. 3d.; HYDROBROMIDE, 2s. 5d. Quantities under 100 oz. plus threepence.

RIBOFLAVINE. — One kilo, £13 5s.; 10kilos, £12 17s. 6d. per kilo.

SODIUM ACETATE.—B.P.C., 28-lb., 2s. 4d. per lb.; 1-cwt., 2s.; 5-cwt., 1s. 11d.

SODIUM BENZOATE.—One-ton lots, 2s. $7\frac{1}{2}d$. per lb.; 1-cwt., 2s. $9\frac{1}{2}d$.

SODIUM BROMATE. — One-cwt., 9s. 9d., per lb.

SODIUM CARBONATE. — B.P.C. exsiccated, 70s. per cwt.; 5-cwt., 65s. per cwt.

SODIUM CHLORIDE. — Recrystallised, 25s. per cwt.; B.P., 42s.

Sodium METABISULPHITE. — Granular, 1-cwt. lots, 9d. per lb.

SODIUM PERBORATE. — (Per ton) £145 15s. in 1-cwt. kegs; £138 5s. in 1-cwt. bags for B.P.C. (minimum 10 per cent. available oxygen). PERBORATE MONO-HYDRATE testing 15 per cent. available oxygen is £309 15s.; TETRAHYDRATE, from £131 15s. to £139 5s. per ton as to packing.

SODIUM PERCARBONATE. — (Per cwt.) 170s. 9d. (bags, 7s. 6d. lower) for minimum $12\frac{1}{2}$ per cent, available oxygen.

SODIUM PHOSPHATE. — B.P.C. powder, 2s. 3d. per lb.

SODIUM SALICYLATE. — One-ton lots in bulk, 3s. 7d. per lb.; 5-cwt. 3s. 8d.; 1-cwt. 3s. 10d.

SODIUM SULPHATE.—B.P. from £12 10s. to £19 17s. 6d. per ton as to crystal and quantity, ex works.

STREPTOMYCIN. — DIHYDRO OF BASE, $10\frac{1}{2}d$. per gm.

SULPHUR.—(Per ton in 1-ton lots), B.P. PRECIPITATE, £112 10s.; SUBLIMED, B.P. £47 10s.; POWDER, 100 mesh, £25 10s.

TARTARIC ACID.—10-cwt. lots, 300s. per cwt.; 5-9 cwt., 302s.; 2-4 cwt., 304s.; 1-cwt., 305s.

VITAMIN A.—Synthetic. Supplied in concentrate 1 million international units per gm. as acetate or palmitate the price is $9\frac{1}{2}d$. per million i.u.

VITAMIN D².—In oil, 2 million units per gm, the price is 2d. per million international units. Crystalline: see under calciferol.

VITAMIN E (synthetic or natural).—Toco-PHERYL ACETATE, B.P.C., 25 gm. to 100 gm., 11d. per gm.; 100 gm. to 1 kilo, 9d. per gm.; 1 kilo and under 10 kilos, 431 5s. per kilo: 10 kilos, £30 10s. per kilo. Equivalent prices for unesterified are: 1s. and 10d. per gm. and £37 and £35 10s. per kilo.

ZINC CARBONATE.—One-cwt. lots, 1s. 11d. per lb.

ZINC CHLORIDE. — B.P.C. cake, 5s. per lb.; sticks, 6s. 10d. TECHNICAL, 115s. per cwt.

ZINC OXIDE. — B.P. in 2-ton lots, £112 10s. per ton.

ZINC PEROXIDE.—One-cwt. lots of B.P., 5s. 3d. per lb.

ZINC SULPHATE. — B.P., 1-cwt. lots, 1s. 10d. per lb.

Crude Drugs

- Spot: Spanish napellus, ACONITE. 2s. 6d. per lb.

AGAR. - Kobé No. 1, 16s. per lb. in bond.

ALOES.—Cape primes, spot, 185s. per cwt.; no offers for shipment. Curaçao, spot, 480s.; shipment, 440s., c.i.f.

BALSAMS.—Per Ib.; CANADA: Spot, 22s. for paper-filtered. COPAIBA: Spot, 7s. to 10s., duty paid as to source. PERU: Spot, 9s. in bond. ToLU (genuine as imported): 25s., nominal, B.P., 12s. 6d. per Ib.

BELLADONNA. — LEAVES (t.a. 0.53 per cent.), 1s. 9d. per lb. Dutch for shipment (t.a. not quoted) 2s., c.i.f. Root cleared on the spot.

BENZOIN. -- Sumatra block, spot £22 to £30 as to quality.

BUCHU. — Scarce. Spot rounds, 1960 crop, 5s. per lb.; 1958–59 crop, 4s. 3d. to 4s. 6d.

CALAMUS.-Root, 1s. 2d. per lb., c.i.f. CALUMBA.-Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

CAMPHOR.—B.P. powder, 3s. 10¹/₂d. per lb. in bond.

CAPSICUMS.—Chinese, 155s., duty paid; East African, off-stalk, 175s. to 220s. as to quality.

CARDAMOMS. — Aleppy greens, spot cleared; prompt shipment, 13s. 7¹/₂d. per lb., c.i.f. Seeds, shipment, 21s. 6d., c.i.f. per

CASCARA.—Spot, 1960 peel, 260s. per cwt., shipment, 265s., c.i.f.

CASSIA. - Fistula, 115s. per cwt., spot; lignea, 380s., duty paid.

- Nigerian, 190s. per cwt.; CHILLIES. Zanzibar, 360s., Mombasa, 350s. per cwt.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 5s. 5d.; 3 O's, 5s. $3\frac{1}{2}$ d.; O, 5s. $0\frac{1}{2}$ d.; quillings, 3s. 3d.; featherings, 1s. 7d.

CLOVES.—Zanzibar spo shipment, 2s. 6¹/₂d., c.i.f. -Zanzibar spot, 2s. 9³/₄d. per lb.;

COCHINEAL.—Black-brilliant, 12s. 3d. per lb., spot; Peruvian silver-grey, 4s. 6d.

COCILLANA. — Bark, 2s. per lb., spot; 1s. 8d., c.i.f.

DIGITALIS. - Purpurea for shipment, 11d. to 2s. 4d. per lb., c.i.f., as to test.

ELEMI.-Spot, 2s. 6d. per lb. nominal. Shipment, not offering.

ERGOT .-- Portuguese nominally 9s. 9d. per lb., c.i.f., for prompt shipment; spot, 9s. 3d.

FRANGULA.—Spot, 105s. per cwt. GENTIAN.—Spot: French, 155s. per cwt. GINGER. — African, spot, 230s. and 215s., c.i.f. Jamaican No. 3, spot, 205s.; shipment, 197s. 6d., c.i.f. Cochin, ship-ment, new crop, 140s., c.i.f.; spot, 175s. (per cut) (per cwt.).

GUM ACACIA. — Kordofan cleaned sorts, 162s. 6d. per cwt., spot: November-Dec-ember shipment, 149s., new crop, December-January, 144s. (both c.i.f.).

HENNA. — Indian, spot, 95s. per cwt.; new crop, November-December shipment, 62s. 6d., c.i.f.

HONEY.-Australian light amber, 97s. 6d. 2010 1008: per cwt. and medium amber, 213: 34. 928. 6d. to 978. 6d.; Argentine, 1008.; Jamaican, 1108. to 1158.; Canadian clover, 1458. to 1508., all ex warehouse.

IPECACUANHA. — For shipment, c.i.f., per lb.—Colombian, 50s. 3d.; Costa Rican, 68s. 6d.; Nicaraguan, 66s. 6d. Spot: Matto Grosso, 53s. 6d. to 55s. as to test; Colombian, 55s. 6d.

JUNIPER BERRIES .- Italian, 90s. per cwt.; German, 145s.

KARAYA. — No. 1 gum, spot 325s. per cwt. nominal; No. 2, 225s.

KOLA NUTS. — Jamaican for shipment, 7d. per lb., c.i.f. African, $5\frac{1}{2}$ d. spot and 4d., c.i.f.

LANOLIN. — ANHYDROUS, B.P., is from 170s. to 175s. per cwt. in 1-ton lots and HYDROUS, B.P., 150s., free drums, delivered.

LEMON PEEL.-Spot, 2s. 6d. per lb. LINSEED.-Whole, 75s. to 80s. per cwt.;

crushed, 110s. LOBELIA HERB.-Dutch to land shortly,

4s. 9d. per 1b. American, c.i.f., value 8s. MACE. — Whole pale blade, 23s. 6d. per

lb. spot. MENTHOL. — Chinese: market nominal. Brazilian, 57s. 6d., in bond; 57s. 6d., c.i.f.; Formosan, 57s. 6d., duty paid (55s. in bond).

MERCURY. - About £70 10s. per flask of 76 lb.

NUX VOMICA.—Shipment, 90s. per cwt., c.i.f., subject to export licence.

ORANGE PEEL. — Spot: Sweet ribbon, 2s. per lb.; bitter quarters: West Indian, 11d.; Spanish, 1s. 7d.; bitter ribbon, 1s. 6d.

ORRIS ROOT .- Florentine, 350s. per cwt. PAPAIN. — Tanganyikan, 12s. per lb., c.i.f., for grade one. Spot, 12s. 6d. to 13s. Ceylon all grades nominal.

PEPPER.—White Sarawak, spot, 5s. 2d. to 5s. 3d. per lb.; shipment, 4s. 8¹/₂d., c.i.f. Black Sarawak, spot, 3s. 10¹/₂d.; ship-ment, 3s. 1¹/₂d., c.i.f. Black Malabar, 460s. per cwt. spot, and 425s., c.i.f.

PEPPERMINT LEAVES. — Dutch 1s. 9d. to 2s. 2d. per lb., c.i.f. whole,

PIMENTO.—Spot, 590s. cwt.; shipment, 540s., f.o.b.

PODOPHYLLUM. — Emodi, 190s, per cwt. spot.

QUILLAIA. — Spot nominal; near ship-ment, 175s., per cwt., c.i.f.

SAFFRON.-Mancha selecta, 147s. 6d. per lb.

SARSAPARILLA. — Jamaican native red short on spot, 2s. 8d. per lb.; shipment, 2s. 3d., c.i.f., nominal.

2s. 3d., c.i.I., nominal. SEEDS. — (Per cwt.). ANISE.—Spanish, 155s., duty paid. CARAWAY. — Dutch, 172s. 6d., duty paid. CELERY. — Indian, 145s. spot; shipment, 137s. 6d., c.i.f. CORIANDER.—Moroccan firm at 100s., duty paid; shipment, 80s., c.i.f. CUMIN. — Indian, 185s. spot and Iranian, 180s., duty paid. DILL. — Indian, 100s., spot; ship-ment, 87s. 6d., c.i.f. FENNEL.—Chinese is 105s., duty paid and Indian, 120s. FENU-GREEK.—Moroccan sold at 57s. 6d., duty paid with sellers now asking 60s.; shippaid with sellers now asking 60s.; ship-ment, 49s. 6d., c.i.f. MUSTARD.—English, 67s. 6d. to 97s. 6d. according to quality.

SENEGA.-Spot, 21s. 6d. per lb.

SENNA. — *Tinnevelly* LEAVES, prime No. 1, 1s. 5d. per lb., nominal, f.a.q.; No. 3, 9d. Pops: Manufacturing (f.a.q.), 9d. and hand-picked, 1s. 6d. to 1s. 10d. *Alexandria* pods: Manufacturing, 1s. 6d.; neurographic defender defender defender new crop hand-picked, 4s. 6d. to 7s.

SQUILL.-White 80s. per cwt., spot.

TONQUIN BEANS.—Para spot, 7s. 3d. per Shipment, 7s., c.i.f. Angostura 11s. lb

TRAGACANTH. — No. 1. Tibbon, £145 to £150 per cwt, No. 2, £135 to £140. VALERIAN ROOT. — Spot: Indian (with rootlets), 130s. Belgian, whole (max. 2½ per cent. sand) for prompt shipment, 145s., c.i.f. Dutch old crop cleared; new-crop prices awaited.

VANILLIN.—Rates (per lb.) are now:— 5-cwt. lots, 23s. 3d.; 1-cwt., 23s. 6d.; 56-lb., 23s. 9d.; smaller quantities, 24s.

WAXES. - (Per cwt.). BEES'.--Dar-es WAXES. — (Per cwt.). BEES. — Dar-es-Salaam, spot, 485s.; shipment, 460s., c.i.f. Abyssinian, spot 410s. in bond; shipment 370s., c.i.f. Benguela, shipment, 380s., c.i.f. Sudanese, spot, 425s.; shipment, 380s., c.i.f. CANDELILLA, spot, 460s. CARNAUBA, fatty grey, spot, 540s.; ship-nent, 520s., c.i.f.; prime yellow, spot, 750s.; shipment, 725s., c.i.f. Watcu u tattu LEAVES — New crop. pomi-

WITCH HAZEL LEAVES .- New-crop nominally, 2s. 8d. per lb.

Essential and Expressed Oils

BAY.—West Indian, 12s. per lb. on the spot.

BERGAMOT.-Spot, from 72s. 6d. per lb. CADE. — Spanish, 3s. 6d. per 1b. for drum lots.

CALAMUS.-Spot, 62s. 6d. per lb.

CANANGA.-Spot. from 42s. 6d. per lb. CARAWAY. - Imported oil, 27s, 6d. to 37s. 6d. per 1b.

CARDAMOM. — From 330s. per lb. for English-distilled and 260s. for imported.

CEDARWOOD.—American rectified, 5s. 6d. per lb. on the spot.

CINNAMON. — From quillings, best Eng-lish-distilled is 50s, per oz.; other B.P. oils from 165s. per lb. Ceylon leaf, spot, 10s, 6d, per lb.; Seychelles, 8s. 6d., spot.

CITRONELLA. — Ceylon, spot, 6s. 7d.; shipment, 6s. 3d. per lb., c.i.f. Formosan, spot, 6s. 4½d., in bond; shipment, 6s. 3d. c.i.f.

CLOVE.—Madagascar leaf, spot, 8s. per lb., duty paid; shipment, 7s., c.i.f. Recti-fied 87-88 per cent., 12s. Distilled bud-oil. English, B.P., 30s. to 31s.

CUMIN.-Imported oil, 90s. per 1b.

EUCALYPTUS.—Australian 70 and 75 per cent. eucalyptol on the spot is 5s, 3d. per lb. 80–85 per cent., 5s. 6d. Spanish (70–75), 3s. 6d. spot. Chinese 3s. 3d., duty paid.

FENNEL. — Spanish sweet, spot, 10s, per lb.

GERANIUM. — Bourbon, 175s. to 185s. per lb. on the spot; Algerian, 140s.

GINGER.-Imported: Jamaican, 130s. per lb.; Chinese, 72s. 6d., duty paid.

JUNIPER. - B.P.C. 1949 oil is from 15s. per lb. on the spot. English-distilled, 180s. JUNIPER WOOD, from 5s.

LEMON.—Californian cold-pressed from 2s. 6d. per lb., spot. Terpeneless, 500s. 12s.per lb.

PENNYROYAL. - Spot. 12s. 6d. per lb. duty paid.

PEPERMINT. — Arvensis: Chinese spot. cleared. Brazilian, 16s. 9d. per lb. spot and shipment, 16s. 6d., c.i.f. *Piperita:* Italian "Mitcham-type" nominally 55s. per lb., c.i.f., for new crop. Bulgarian. B.P., 32s. 6d. American, 35s. per lb.

PETITGRAIN.—Paraguay, 18s. 6d. per lb., spot; shipment, 17s. 9d., c.i.f.

PIMENTO. — English-distilled berry 167s. 6d. per lb.; imported, 77s. 6d. Rec-tified leaf, 27s. 6d. per lb. for small lots.

PINE. — Pumilionis on the spot is 16s. per lb.; sylvestris, 25s.; Siberian (abietis), 12s. 6d. to 14s.

ROSEMARY .- Spanish is 7s. 6d. per lb. on the spot for best quality.

RUE.-Spanish is 25s. per lb. spot.

SAGE .- Spanish, 8s. per lb.; Dalmatian. 25s.

SANDALWOOD.—Mysore 150s. to 155s. per lb. Australian, 70s.

SASSAFRAS.—Brazilian is from 3s. 6d. per lb., duty paid.

SPEARMINT.—American oil on the spot about 50s.

TANGERINE.-From 22s. to 31s. per lb., as to quality, spot.

YLANG YLANG.-Spot, 37s. 6d. per lb.

UNITED STATES REPORT

NEW YORK, OCTOBER 25: Crude IODINE from Chile was advanced by 15 cents to \$1.10 per lb. Synthetic CAM-PHOR reduced to make U.S.P. powder 57 cents per lb. (down 2 cents) and tablets, 80 cents (5 cents). Higher per Ib. were ALETRIS ROOT at \$1.75 (up 10 cents). LOBELIA HERB, \$1 (20 cents) and SANDALWOOD OIL, up 50 cents to \$23 per lb.

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TELEVISION

Figures in the columns represent number of appearances of the product during the week.

C. & D. RETAIL AND DISPENSING PRICE LIST The drug index for September was 209.6

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November 6-12	Condon	Midland	North	otla	Wales	uth	щ	glia	Ulster	
	Lo	W	ž	Sc	≩	So	ż	An	5	
Alka-Seltzer Anadin	1	6	1	_2	2	2	2 5	2	2	
André Philippe	2					2	5	1	-4	
hair lacquer		—	_			—	1	—	—	
Angettes	3	2	3				1	_	_	
Aspro	4		2			4		_	1	
powders	4	4		4	4	4	4	5	5	
Bisodol Bronchipax	_		_	6					-	
Bronchipax California Syrup of	5	3	2	4	5	3	5	2	_	
figs		_	2		_	_		_	_	
Christy's emulsion	—			—	—					
Coldrex Coliclean	4	5	5 2	3	3	.3	3	_4	4	
Coliclean Cooper's aerosols	6	10		8	6	4	7	9	6	
Crookes Dckrasil										
capsules	_	_	3	-			2	—	—	
Cuticura Deep Heat	2	3	_	3					1	
Deep Heat Delsey Dristan tablets		_	_	3	_	_	2	_	_	-
Dristan tablets	—	—	1		—	—	—	—	—	_
Elliman's	1		1	,						
embrocation Eno's fruit salt		2	1					_	_	-
Euthymol tooth-										
paste Farley's infant foods Germolene	1		_	1		1	1	1	—	
Farley's infant foods	1	2	1	_	_	_		_	_	
Germolene Gon tablets		-		1		_	_	_	_	
Guavin	_		_			1	_			C
His Excellency	1	— ·						_		
Guavin	3	4	3	2	3	3		2 3	$\frac{2}{2}$	
Johnson's baby	~	0	-7	5	5	5	5	5	2	
products	3	2	4	3	2	3	2	2	3	
Kleenex	3	4	4 3 ·	2	5	3	3	5	2	
Lantigen products		_	1 .			_	_	_	_	C
Loxene hair cream	2 ·		_	1 -	_	2	1	2		
shampoo	1	1	1	1	1	1	1	1	1	
Mac throat sweets Macleans tooth-paste	4	3 2	2 -	3	3	3	2	3	3	
Milk of Magnesia	2.			2	2		$\frac{1}{2}$	2		
tablets	_		3 -	_		_			3	С
	<u>.</u>		2 -						2	
Owbridge's products Panets	4 -				2	2	3	2	6	
Penetrol inhalant		1	: -			_	1			v
Pepsodent tooth-										
paste	1	2	2	2	2	2	2	2	2	
blankets	1	1	1 -				1	1		D
Philishave	5	5	5	5	5	4	4	5	5	В
Phillips tooth-	1									
Phosferine	1 - 2	2	2 -			_	_	_		
Phyllosan	_	ĩ	1 -		2 -	_	2 ·	_	2	N
Pifco massager	1	1	1	1	1	1	1	1	1	1
Rennies	1	2	2	3	2 1	3 1	2	2	3 1	
Sure Shield Jozenges -		_	5 -			1	1	1	_	~
Т.С.Р	-	1	1 -						_	0
Tru-Gei	3	3	1	3	1	3	2	2	2	
Vaselinc petroleum jelly	5	4	4	5	5	5	5	5	5	
Veno's cough mixture	2	1	2	2	5 2 -		5 2 ·		2	6
Wincarnis	-	2 -								SI
Winspray products					-	1 -			-	

WILLS

MR. A. H. BOBERTSON, M.P.S., 25 Barton Road, Lancaster, left £3,595 (£3,460 net).

MR, J. I. CAMPBELL, M.P.S., Greenbank, Gathurst Road. Gathurst, Wigan, Lancs, left £48,529 (£38,128 net).

MR. W. T. ELDER, M.P.S., 22 Fountainhall Road, Aberdeen, left personal estate in England, Scotland and abroad valued at £10,847.

MR, L. HEPTINSTALL, M.P.S., Windrush, Black Moor Lane, Bardsey, Yorks, left £11,540 (£11,479 net).

Cost		Item	16 oz.	4 oz.	l oz.	l dr.
d.	per	пеш	s. d.	s. d.	s. d.	s. d.
26	500 gm.	Ammon. chlorid. pur	_	0 10	0 3	0 1
63	250 gm.	Collod. aceton., B.P.C	—	3 3	1 0	$0 1\frac{1}{2}$
96	500 gm.	Collod. acid. salicyl., B.P.C	—	2 6	09	$0 1\frac{1}{2}$
69	500 gm.	Collod. flex. meth	_	19	$0 \ 6\frac{1}{2}$	0 1
90	500 mils	Emuls. menth. pip., B.P. '53	-	2 11	$0 \ 10^{\frac{1}{2}}$	0 13
68	100 mils	Ext. ergotæ liq., B.P.C. S.1. (5)	-	-	2 10	0 5
212	2 litres	Ext. glycyrrhizæ liq	_	1 8	0 6	0 1
30	500 mils	Fehling's solution No. 1	3 5	$0 11\frac{1}{2}$	$0 3\frac{1}{2}$	_
90	500 mils	Inf. sennæ conc., B.P.C	-	2 11	$0 \ 10^{\frac{1}{2}}$	$0 1\frac{1}{2}$
42	500 mils	Liq. aluminii acetatis	- 1	14	0 5	
237	1 gal.	Ol. arachis	3 0	0 11	0 15	
52	25 gm.	Phenobarbitonum S.1.R only	_	_		1 1
66	25 gm.	Podophylli resina	-	-	<u> </u>	1 4
234	500 gm.	Rheum pulv	_	-	2 3	0 4
87	100 gm.	Thymol	_	_	3 8	0 6
87	500 mils	Tr. scillæ, B.P.C		2 10	0 10	$0 1\frac{1}{2}$
39	500 gm.	Ung. emulsificans aquos		1 3	$0 4\frac{1}{2}$	
132	500 gm.	Ung. resorcinol. co., B.P.C.	-	4 3	1 3	0 2
Cost						
d. per		Tablets, retail (in contain	ners)		s. d.	s. d.
32	32 100 Folic acid 5-mgm., B.P.C				19	4 8
510	1000 Prone acid 5-ingin., B.P.C S.I. R only					8 4
96	1000	2 6 0 9 1	2 0			
	1	Sodii citrat. gr. 2			5 71	

The bold letters and figures at left of dispensing price relate to the classification of poisons in THE CHEMIST AND DRUGGIST Poisons Guide.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Tuesday of the week of insertion.

Sunday, October 30

CORNWALL BRANCH, NATIONAL PHARMACEUTICAL UNION, Tregenna Castle hotel, St. Ives, at 2.30 p.m. Mr. A. Howells (N.P.U. vice-chair-man) on "Hazards of the Present and the Future,'

Monday, October 31

BRANCH, PHARMACEUTICAL SOCIETY, Oldham Greaves Arms hotel, at 7.30 p.m. Annual meeting.

WEST HERTFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Crown hotel, Berkhamsted, at 7,30 p.m. Hallowe'en party.

Tuesday, November 1

BIRMINGHAM BRANCH, NATIONAL PHARMACEUTI-CAL UNION, Imperial hotel, at 8 p.m. Mr. G. T. M. David (chairman, N.P.U, marketing policy committee) on "The N.P.U. Marketing Policy and the Future."

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Black Boy hotel, at 7.30 p.m. Mr, C, A. Hobday (Trent River Board) on "The Bio-logical Aspects of River Pollution."

DXFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Wesley memorial church hall, New Inn Hall Street, Oxford, at 8 p.m. Make-up demonstration by a representative of Max Factor Hollywood and London (Sales), Ltd,

HEFFIELD BRANCHES, PHARMACEUTICAL SOCIETY and Guild of Public Pharmacists, Royal Hospital, at 7.30 p.m. Talk by Dr. H. F. West (consultant physician in charge, Sheffield Centre for the Investigation and Treatment of Rheumatic Disease),

WEST HAM ASSOCIATION OF PHARMACISTS and EAST METROPOLITAN BRANCH, Swan hotel, Stratford Broadway, at 8 p.m. Mr. H. Ridehalgh (a member of the Society's Council) on "A Prizewinner's View of New York."

Wednesday, November 2

CAMBRIDGE AND HUNTINGDON BRANCH, PHARMA-CEUTICAL SOCIETY, Matthew's café, 14 Trinity Street, Cambridge, at 8 p.m. Mr. K. Holland (Macarthys (Wholesale Chemists), Ltd.) on Pharmacy as seen by a Wholesale Chemist.'

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Rest hotel, Kenton, at 6.30 p.m. Annual dinner and dance.

- NORWICH BRANCH, PHARMACFUTICAL SOCIETY, assembly house, Theatre Street, at 7.30 p.m. Mr. R. Petitit (Green & Wright, Ltd.) on "Track Winner" "Table Wines,"
- WOKING BRANCH, PHARMACEUTICAL SOCIETY, Albion hotel, at 7 p.m. Annual dinner-dance. PHARMACEUTICAL SOCIETY,

Thursday, November 3

- HESTER BRANCH, PHARMACEUTIAL SOCIETY, Blossoms hotel, at 8 p.m. Mr. A. Metcalfe, A.R.P.S., on "Table Topics." CHESTER
- EDINBURGH AND SOUTH-EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.45 p.m. Film show by Max Factor Hollywood and London (Sales), Ltd. London Section, Royal Institute of Chemis-
- TRY, Brunel College of Technology. Woodlands Road, London, W.3, at 7 p.m. Dr. C. C. Addison on "Non-aqueous Solvent Systems,"
- THAMES VALLEY PHARMACISTS' ASSOCIATION, Kingston hotel, Kingston-on-Thames, at 7.45 p.m. Mr. W. G. Morris on "Colour Photography."

Friday, November 4

- MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, 9 Bluecoat Chambers, School Lane. Liverpool, 1, at 7.45 p.m. Mr. A. D. M. Johnstone (Liverpool public health department) on "The Protection of Your Food Supply.'
- SOCIETY OF CHEMICAL INDUSTRY, Royal College of Science and Technology, George Street, Glasgow, at 6 p.m. Tennant memorial lecture: Professor A, R, Ubbelohde (professor of thermodynamics, Imperial College of Science and Technology, London) on "Melting and Freezing.

Saturday, November 5

LONDON SECTION, ROYAL INSTITUTE OF CHEMIS-TRY, Bush House restaurant, Aldwych, London, W.C.2, at 6.15 p.m. Annual dinner and dance.

TRADE MARKS APPLICATIONS ADVERTISED BEFORE REGISTRATION

558

From the "Trade Marks Journal," October 19 For prepolymers, being chemical products, for

the production of urethane resins (1) SOLITHANE, 801,825, by Thiokol Chemical Corporation, Bristol, Pennsylvania, U.S.A.

For all goods (1) HOSTAPHAT, 806,860, by Farbwerke Hoechst, A.G., vormals Meister Lucius & Brüning, Frankfort-on-Main-Hoechst, Germany.

For scouring powder (3) JET, B793,766, by Thomas Hedley & Co.,

Ltd., Newcastle-on-Tyne For liquid dry-cleaning preparations for domestic

use (3)

SCRUBB'S, 794,973, by Scrubb & Co., Ltd., Wimbledon, London, S.W.19. For hair lotions for use in waving the hair (3)

JETCOLWAVE, B795,988, by Costas Chris, Bexleyheath, Kent.

For perfumed soap, perfumes and non-medicated toilet preparations, cosmetics, hair lotions and dentifrices (3)

Device, 799,686, by Bourjois, Ltd., Croydon, Surrey

For non-medicated toilet preparations for use on eyelashes (3)

LASH-O-MATIC, 801,003, by Miners Make Up, Ltd., Surbiton, Surrey,

For tooth-paste (3) SMILE, 804,837, by Thomas Hedley & Co., Ltd., Newcastle-on-Tyne.

For all goods (3)

CLEERTEEN, 805,070, by Tokalon, Ltd.. Chertsey, Surrey. COOKIES 'N' MILK, 805,333, by Helene Pessl, Inc., New York 22. U.S.A.

For soaps, pertumes, non-medicated toilet preparations and cosmetic preparations (3)

MINER'S SHEER BLISS, 805,483, by Miners Make Up, Ltd., Surbiton, Surrey.

For washing preparations (3) NYLUSTRE, 806,140, by Mayborn Products,

Ltd., Sydenham, London, S.E.26, For detergents (not for use in industrial or manu-

facturing processes) (3) RADAR, 806,180, by Thomas Hedley & Co.,

Ltd., Newcastlc-on-Tyne. For perfumes, toilet preparations (not medicated) cosmetic preparations, dentifrices, depilatory preparations, toilet articles, sachets for use in wav-

ing the liair, soaps and essential oils (3) CAPTAIN, 808,303, by W, B, Cartwright, Ltd., Rawdon, Yorks.

For preparations of vitamins and of minerals for use as nutritional aids by addition to foodstuffs (5)

COMBIVITA, 794,287, by Multiforsa, S.A., Zug, Switzerland.

For antihistaminic, anticholinergic and antipru ritic preparations, and serotonin antagonists, all for use in medicine and pharmacy (5)

PERJACTIN, 794,667, by Merck & Co., Inc., Rahway, New Jersey, U.S.A.

For all goods (5)

SCLENAX, 798,113, by Roche Products, Ltd., Welwyn Garden City, Herts. CLEERTEEN, 805,071, by Tokalon, Ltd., Chertsey, Surrey. SPRING STEP, 806,048, by D.D.D. Co., Ltd., Watford, Herts.

For pharmaceutical preparations for use against infections and parasitic infestations, for human use (5)

TAPARIL, 798,115, by Roche Products, Ltd., Welwyn Garden City, Herts.

For pharmaceutical preparations for human and veterinary use (5) FLOXAID, 798,878, by Merck & Co., Inc.,

Rahway, New Jersey, U.S.A.

pharmaceutical preparations used for the treatment of superficial infections, burns and similar skin irritations (5)

Device of the word VOSOL, 799,465, by Denver Chemical Manufacturing Co., Stamford, Connecticut, U.S.A.

For pharmaceutical preparations and substances; and sanitary substances and disinfectants; all for veterinary use (5)

EPIVET, 800,380, by Imperial Chemical Industrics, Ltd., London, S.W.1.

For pharmaceutical preparations for the treatment of respiratory disorders (5)

RESPIRAN, 800,887, by Anestan, Ltd., London, W.1.

For drugs for use in operations for the removal of cataract of the eye (5)

ZONUTYSIN, 802,831, by S. Maw, Son & Sons, Ltd., Barnet, Herts.

For pharmaceutical preparations for the treat-ment of coughs, colds and the like ailments (5) TRIOTUSSIC, 803,007, by A. Wander, Ltd., London, W.1.

For pharmaceutical products and preparations all being or containing amines (5)

NOBAMIN, 803,710, by A.G. Bofors, Bofors, Sweden.

For pharmaceutical preparations (5)

RIFOCIN, 804,513, by Lepetit, S.p.A., Milan, Italy. For pharmaceutical preparations in the form of

chewing gum for use in the treatment of heart ailments (5)

ANJIGUM, B804,632, by Horlicks, Ltd.. Slough, Bucks.

For deodorants (5) FRESHMAN, 805,354, by Myram Picker, Ltd.. Surbiton, Surrey.

For pharmaceutical, veterinary and sanitary substances; insecticides, bactericides, viruscides and fungicides; and preparations for killing weeds and destroying vermin (5)

Device with number 1044, 805,544, by Walter Gregory & Co., Ltd., Wellington, Somerset. For weed-killing preparations (5)

DAQUAPON, 807.545, by Borax Consolidated, Ltd., London, S.W.1.

For razor blades (8)

REVEILLE, 802,620, by Falcon Distributors, Ltd., London, W.1.

For photographic apparatus and instruments, parts and fittings, but not including camera stands or camera rests (9)

CAMERAPOST, B795,889, by Ascotts, Ltd.,

London, W.1. For apparatus for controlling or assisting respir-

ation, and parts and fittings (9) MINUTEMAN, 796,857, by British Oxygen Gases, Ltd., London, S.W.1.

For apparatus and instruments, parts and fittings, and lenses, all for use in colour photography and colour cinematography (9)

AGFA COLOR-AUTOMAR, 803,869, by Agfa,

A.G., Leverkusen-Bayerwerk, Germany.

For thermometers (9) TEMPOINT, 805,462, by Bacharach Industrial Instrument Co., Pittsburgh, Pennsylvania, U.S.A.

For photographic, cinematographic and optical apparatus, and parts and fittings (9)

CAVALCADE, 806,863, by Kodak, Ltd., London, W.C.2.

For glass feeding-bottles (10)

PYREX, 795,306, by James A. Jobling & Co., Ltd., Sunderland,

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED From the "Official Journal (Patents),"

October 19

Lipo-polysaccharides of bacterial origin and process for preparing same. CIBA, Ltd. 856,413. Anti-allergic and anti-viral substances prepared from bacterial cultures, CIBA, Ltd, 856,414. Substituted anilides, A, E, W, Smith, 856,385. Aniline derivatives, Merck & Co., Inc, 856,443.

Animal feed derivatives. C. Pfizer & Co., Inc. 856.290.

Process for the production of a solid concentrate of laxative substances of senna drugs. R. Lappe, W. Lappe, H. Eikermann, and R. Gricshaber-Lappe (trading as A. Nattermann & Cie). 856,351.

2-aryl-hexahydroquinolizines, W. S. Merrell & Co. 856,357.

Preparation for bleaching the skin, W. Fellows, 856,431.

Polysulphonamides. Imperial Chemical Industries, Ltd. 856,310. Flame spectrophotometry. National Research

Development Corporation. 856,442. Derivatives of isocyanuric acid. Imperial Chemi-

cal Industries, Ltd. 856,372. Antioxidant composition and its use, Ethyl

Corporation, 856,458.

Carbamic acid derivatives. Cassella Farbwerke Mainkur, A.G. 856,460.

Diamino derivatives of dimeric aromatic hydrocarbons, National Distillers & Chemical Corporation, 856,313.

Isolation of Rauwolfia alkaloid and salts thereof. Penick & Co., S.B. 856,316.

4'-bis (benzimidazol-2-yl)-stilbene, Sterling Drug Inc. 856,319. Manufacture of pentaerythritol, Union Chimique

Belge, S.A. 856,322.

Heterocyclic compounds and methods for producing same. Parke, Davis & Co. 856,352. Process for the manufacture of 4-amino-isoxazali-

done-(3). F. Hoffmann-La-Roche & Co., A.G. 856.393.

Process for the preparation of cyclopropanecar-boxylic acids of trans-form. Soc. des Usines Chimiques Rhone-Poulenc, 856,400.

Vitamin A intermediates and process for obtaining them, Nopco Chemical Co. 856,402.

Pyvidazine derivative and its process of preparation. Chimie Et Atomistique. 856,409.

Method for the preparation of alkoxyalkyl esters of p-methoxycinnamic acid, L. Givaudan &

Cie, S.A. 856,411. 4-methyl-17 α-hydroxyprogesterone and its esters and their preparation. Soc. Farmaceutici Italia, 856.361.

Insecticides comprising halogenated-endomethy-Ruhrchemie, A.G. lene-tetrahydrophthalans. 855.955.

Halogenated tetra-hydro-thophene-1, 1-dioxides. Diamond Alkali Co. 856,446.

Apparatus for delivering liquids at a constant mean rate. National Research Development Corporation, 856,302.

Filtration processes. Imperial Chemical Industries, Ltd. 856,247.

Apparatus for filling bags with powdered materials. Wright Hargreaves Engineering Co., Ltd.,

and G. Hargreaves, 856,457. Flexible tubing clamp for venoclysis apparatus. Abbott Laboratorics, 856,266.

Frame filter press, J. R. Geigy, A.G. 856,241.

British patent specifications are obtainable (price 3s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

CONTEMPORARY

THEMES

Subjects of contributions in current medical and

A NEW DRUG is born. J. Amer. Med. Ass., Sep-

SYSTEMIC INSELTICIDES in the control of cattle

CHLORINE, use of, in the detection of compounds

ELASTASE, a plate assay for, Nature, October 22.

PHENYTOIN in the treatment of trigeminal and

PARASITIC DISEASE OF THE SKIN, Med Press,

THE MENOPAUSE, management of: a new ap-

proach, Med. Press, October 19. LAVANDULA, histological studies of the genus. Part I. Lavandula multifida L., Amer. J.

PERTUSSIS: is universal vaccination against it always justified ? Brit. med. J., October 22.

HEPARIN, neutralisation of, after perfusion, Brit.

MIGRAINE, drug prophylaxis in, Brit. med. J.,

MUSCARINE ISOMERS, atropine-1 ke actions of,

RADIATION SENSITIVITY of dry bacterial spores,

reduction of, with hydrogen sulphide, Science,

TABLET SHELF LIFE PREDICTION, heating and

cooling rate coefficients and related factors affect-

ing procedures for, J. Amer. Pharm. Ass.,

EUCALYPTOL, determination of by residual titra-

TOXICITY AND SAFETY TESTING of disposable medical and pharmaceutical materials, J. Amer. Pharm. Ass., October.

J. Amer. Pharm. Ass., October.

tion with hydrogen bromide in acetic acid,

ETHIONAMIDE, Brit. med. J., October 22.

CHEMICAL SPLENECTOMY, Lancet, October 22.

2-HYDROXYŒSTROGENS, Nature, October 22.

OXIDOSOMES in bacterial anatomy,

other neuralgias. Lancet, October 22.

on paper chromatograms. Nature, October 22.

Nature.

technical periodicals.

grubs, Vet. Rec., October 22.

tember 24.

October 22.

October 19.

Pharm., July.

October 22.

October 7.

October.

med. J., October 22.

Science, October 7.

It's going

to be an

year

even bigger



6'6 PROFIT ON EVERY BOTTLE!

• Every greying or grey-haired man or woman coming into your shop is a potential customer for FORMULA 16.

• Thousands of satisfied users prove FORMULA 16 brings natural-looking colour back to grey or greying hair.

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display, sell, make bigger profits with **formula**

ORDER NOW FROM YOUR USUAL WHOLESALER.

L. E. VINCENT & PARTNERS LTD., 7 CHESTERFIELD GARDENS, LONDON, W.I. GROSVENOT 4446

BIGGER TV ADVERTISING THAN EVER BEFORE! IN ALL AREAS

GON sales again increased last winter and with even bigger TV, National and Women's Press advertising this winter, sales will reach a new and higher level.

GON IS SOLD ONLY THROUGH RETAIL PHARMACISTS

GON is a chilblain treatment and preventative in tablet form—each tablet containing 10 mgm acetomenaphthone and 50 mgm nicotinamide. The tablets are packed in display outers of 12 boxes of 24 tablets and retail at 3/- a box. No Purchase Tax.

ORDER NOW - POST TODAY

 SPECIAL DISPLAY BONUS OFFER

 Orders for one outer of 12 boxes of 24 tablets—only 11 boxes will be charged, in return for four weeks counter display during January 1961. Orders for two or more outers—only 10 boxes will be charged for each dozen in return for one outer being displayed on the counter and one in the window during the four weeks of January 1961.

 Please send me on Display Bonus Terms.....doz. GON PACKS Name.....

 Address.....

POST TO: Ward Blenkinsop & Co. Ltd., Fulton House, Empire Way, Wembley, Middlesex

October 29 1960

"BRITAIN'S DRUG BILL NOT EXCESSIVE" SAYS LORD BOOTHBY

PRICE OF MEDICAL CARE CONSTANT FOR FIFTY YEARS



Opening Winthrop House, the new Surbiton offices of Winthrop Group, Ltd., the Rt. Hon. Lord Boothby, K.B.E., Ll.D., spoke trenchantly on the subject of British expenditure on pharmaceutical benefits. He pointed out that the proportion of income per head of population spent on pharmaceutical services in the majority of countries which do not have a free health service is higher than in Britain. "This is true," said Lord Boothby, "not only of the *total* expenditure on pharmaceutical benefits, but, in addition, the expenditure by the State or private insurance in these countries is also a higher percentage of per capita income than in Britain."

A MOST REMARKABLE FACT

Lord Boothby went on to discuss the question of drug costs. "We are told that it is necessary to curb the rising cost of drugs, yet in fact expenditure on drugs has always represented the same proportion of total National Health Service expenditure. This is true in spite of the enormous benefits from new, more complex, and therefore more costly drugs. At the present time about 3.7% of the national income is spent on the National Health Service. Going back over 50 years, to before the First World War, published figures show that this proportion has remained almost constant. This is a most remarkable fact when one considers the social and economic revolution which has occurred in the last half century."

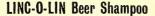
LORD BOOTHBY LAUNCHES VIRUGON

At the cnd of the opening ceremony, Lord Boothby pressed a remote control button which set into motion machinery at the Winthrop Newcastle factory for the manufacture of Virugon. A new preparation of the Bayer Products Division, Virugon is the first anti-viral synthetic. It will be available in Britain from November 1st, 1960, and is of proved value in the prophylaxis and treatment of influenza, measles, mumps, chicken pox and herpes zoster.

IREMENDOUS TRIO

nc·o· 0 F IN PRODUCTS





The genuine beer content in LINC-O-LIN Beer Shampoo brings out the richest tones in the dullest hair, and gives 'body' and 'weight' to fine hair. Suitable for all types of hair, this is the shampoo that creates customer good-will.

The genuine Beer Shampoo with the 'best bitter' flavour in four fascinating packs:

Box af 6 'Mognum' pocks (each contoining over 20 shampoos)					
	16/- plus 4/- P. Tox (Retail 4/6 each)				
Box of 3 doz. single sachets	15/- plus 3/9 P. Tax (Retail 91d. each)				
Box of 3 daz. Twin Pocks (two shampoos—'His' and 'Hers')					
	20/- plus 5/- P. Tax (Retail 1/- each)				
Box af 1 daz. Boby Barrels (eoch containing four shampoos)					
	14/8 blus 3/8 P. Tax (Retail 2/3 each)				

LINC-O-LIN Hand Cream

Box af 1 daz. 2 oz. bottles.

Something unique in packaging and in hand creams. Delightful 4 oz. and 1 oz. hand shaped packs in three lovely pastel shades. Your customers will see instant results after only one application of this wonderful cream with its fresh. clean perfume.

Bax of 1 doz. 4 oz. pocks. £1/8/0 plus 14/- P. Tax (Retail 4/11 each) 25/- plus 12/6 P. Tax (Retail 1/6 each) Box of 3 doz. 1 oz. pocks. Box of 1 doz. 4 oz. Refills. 18/- plus 9/- P. Tox (Retail 3/6 eoch)

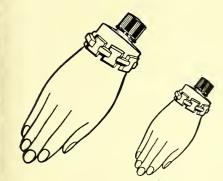
PLEASE SEND FOR DETAILS OF THIS SEASON'S BEAUTIFUL GIFT PACK.

LINC-O-LIN Universal Hair Treatment

Never before has a hair treatment been so universal! Several functions performed in one application. Reconditions-stops breakage and splittingrestores elasticity-controls dandruff-restores overbleached, overpermed hair to silky suppleness. This delightfully perfumed Treatment is marketed in white polythene packs-enough for four applications.

16/- plus 8/- P. Tax (Retail 2/9 each)

LINCOLN CHEMICALS LIMITED 55/57 STRAFFORD ROAD, LONDON W.3





Telephone ACOrn 6791

1

SPEED & ACCURACY

J. C. Arnfield & Sons Ltd. (associated with Jas. Woolley M/c.) are now in new premises* which will enable them to give even better service to customers old and new.

* Brinksway Road, Stockport Telephone Stockport 4911

October 29, 1960

'RHODIA'



PHARMACEUTICALS **ANTIBIOTICS** VITAMINS INDUSTRIAL CHEMICALS **SILICONES** VINYL RESINS RUBBER CHEMICALS PHOTOGRAPHIC CHEMICALS ETHYL VANILLIN

Manufactured by Société des Usines Chimiques Rhône-Poulenc, Paris

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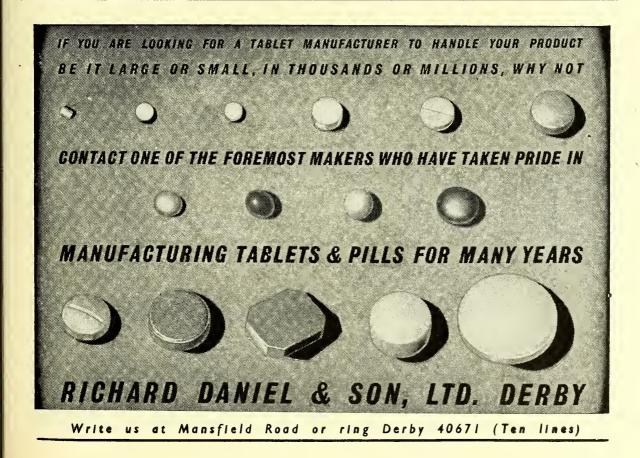
Manchester



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6

News for rheumatism sufferers means NEWS FOR YOU

The makers of Lloyd's Adrenaline Cream have already started their autumn and winter advertising campaign. This powerful campaign, centred on new American discoveries in the causes of rheumatism, began with a **full page** in the *Daily Herald* and the *Daily Sketch* and continues with big spaces in the *People*, the *News of the World* and other important papers.

• Past experience has taught that sales of Lloyd's Adrenaline Cream closely follow advertising.

• Lloyd's Adrenaline Cream already far outsells every other anti-rheumatism cream.

• Rheumatism is by far the most universal common complaint.

• Be sure that none of your customers are disappointed. Order a plentiful supply of Lloyd's Adrenaline Cream from your usual wholesaler.

 $CH(OH) \cdot CH_2 \cdot NH \cdot CH_3$

CRFAM

HOWARD LLOYD & CO. LTD., 11 WATERLOO PLACE, LONDON, S.W.1

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LLOYD'S

NEW ERA LABORATORIES LTD.

announce the following price changes effective from the 1st November 1960

Product	Standard Wholesale Price per doz.	Purchase Tax per doz.	Retail Price Inc. Tax each
'ELASTO' Tablets	44/-	11/-	6/5
,, ,, ,,	176/-	44/-	25/8*
'NERVONE' Tablets	44/-	11/-	6/5
33 35	110/-	27/6	16/_*
39 39	176/-	44/-	25/8*
'ELASTO' NATURE SALVE	24/-	6/-	3/6
»» »» »»	120/-	30/-	17/6*
N.E.T.C.O. 444 PILLS	32/-	8/-	4/8
' ZIEF ' Tablets	68/8	17/2	10/-
33 39	171/4	42/10	25/-*

* Special Economy Pack to be retailed intact

NEW ERA LABORATORIES LTD.

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7

(PF3322)

THE CHEMIST AND DRUGGIST

October 29, 1960

to counterbalance

the restricted diet

JUVEL

now available in TABLETS & ELIXIR Many patients are consuming diets restricted in one way or another

- the low calorie diet of the obese patient
- the low salt diet of the hypertensive
- the low fibre diet of the dyspeptic
- the low fat diet of the atheromatous

Others restrict their food intake because of domestic, psychological or financial stresses.

All these are subject to the risk of malnutrition in its various aspects and the sequelae often bring such patients for medical advice.

JUVEL was designed to meet the vitamin needs of patients in any of the above categories. It contains both fat-soluble and watersoluble vitamins in concentrations high enough to counterbalance dietary shortages and to have a definite therapeutic effect. It is now available in liquid form as well as in tablets.

1	1 fl. oz. in	The deily does of 1 tablet contained
÷	contains:	The daily abse of T tablet contains:-
÷	20,000 iu	Vitamin A
1	2.000 iu	Vitamin D 500 iu
1	10 mg	Vitamin B ₁
1	10 mg	Riboflavine
1	10 mg	Vitamin B ₆
1	200 mg	Nicotinamide
1	40 mg 200 mg	d-7-tocopheryl acetate (Vitamin E) 10 mg Vitamin C 50 mg
	Elixtr form contains: 20,000 iu 2,000 iu 10 mg 10 mg 200 mg 40 mg	Vitamin D 500 iuVitamin B, 2.5 mgRiboflavine 2.5 mgVitamin B, 2.5 mgNicotinamide 50 mgd- σ -tocopherylacetate (Vitamin E) 10 mg

FORMULA The formula of 'JUVEL' has been designed in consideration of the known defects in the diets of many older patients. The vitamins chosen and the quantities given are related to needs as determined by dietary surveys and the known incidence of disease.

Tablets: Packs of 100 and 500—Basic Price to N.H.S. 15/and 65/-. Elixir: 6 fl. ozs.—Basic Price to N.H.S. 4/8.

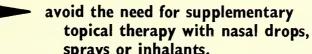
PRODUCT OF VITAMINS LIMITED, UPPER MALL, LONDON, W.6

NEW PRODUCT



decongestant · anti-allergic · antipyretic

relieve nasal congestion in colds, sinusitis and rhinitis.



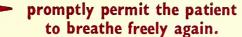
sprays or inhalants.



no rebound congestion; no mucosal damage.



relieve lachrymation and rhinorrhœa; alleviate sneezing.



Each tablet contains:----

 PIRITON Maleate (chlorpheniramine maleate B P C.)
 2mg.

 PHENYLEPHRINE HYDROCHLORIDE B P
 10mg.

 ASPIRIN B P
 230mg.

 PHENACETIN B P
 160mg.

 CAFFEINE B P
 30mg.

ANT I SCHEDULE 7 (D)

PRESENTATION

In tubes of 12 tablets; outered in cartons containing 24 tubes. **RETAIL PRICE** (inc. P.T.) **4/6** per tube. **TRADE PRICE 2/10,** P.T. 8¹/₂d.

MANUFACTURED IN ENGLAND BY ALLEN & HANBURYSLTDLONDON E 2



make dispensing so much easier

An efficient packaging system plays an important part in any speedy, well-organised dispensing service—as the modern pharmacist is quick to realise. And efficient packaging demands Certor dispensers —now rapidly becoming standard equipment in modern pharmacies. Certor dispensers ensure that all your packing, wrapping and capping materials are there at your fingertips, conveniently arranged in immediately identifiable sizes. Parchment, satchels, cartons, screw caps—all these Certor products have their own specially designed Certor dispenser with separate compartments for the complete range of sizes. Certor dispensers are compact, convenient, strongly made and well finished. They are used by British Schools of Pharmacy.

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Dispensing Parchmen

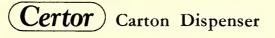
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Certor) Parchment Dispenser

Seven graduated compartments to hold the complete range of Certor pharmaceutical dispensing parchment-480 sheets of each size; powder, 1 oz., 2 oz., 3-4 oz., 6 oz., 8-10 oz. and 12-16 oz.

Certor) Screw Cap Dispenser

Registered design No. 878768 Five large compartments to hold the complete range of Certor screw caps-adequate to cap the complete range of dispensing, packing and tablet bottles.



Dispensing Cartons

TONS

Five compartments to hold a comprehensive range of Certor dispensing cartons-sizes 1, 2, 3, 4 and 5. (These sizes are available with low cost own-name printing.) Large sizes of cartons for tablet foils are supplied.

COLOUR SHAMPOO

Available in 17 wonderful colours. MONIL is particularly famous for pure brown and black shades which give a truly natural beauty.



IS IN DEMAND

For years a favourite in the smartest hairdressing salons, MONIL is now available to *every* woman! This is good news for them — and good news for YOU!



SELLS ON SIGHT

The attractive MONIL display pack *means* something to a woman. She sees it — she recognises it — she buys it!



MAKES MONEY FOR YOU!

There's a handsome profit margin for you on every MONIL colour shampoo that you sell — and you can rely on brisk sales and steady repeat business. Retail Price 4/- per bottle 24/- per doz. (plus P.T.) Carriage paid on 5 doz.

Order from your usual wholesaler

or in difficulty write to :

and the second second

MONIL LTD. Hunmanby, Filey, Yorks.

12



GREAT CHRISTMAS CAMPAIGN STARS THE NEW RONSON C·F·L

PRESS The new Ronson C·F·L is far and away the most handsome shaver on the market, and the big-space advertisements-now appearing in all the popular Sunday papers are designed to show your customers just that. These advertisements will continue right through to December, with *pressure* building up as Christmas approaches. In addition there will be a special 6-page Christmas advertisement in the Reader's Digest.

TV The television campaign is concentrated into the four weeks before Christmas. During that time a 30-second commercial, which brilliantly emphasises the gift-appeal of the C·F·L, will be transmitted from all stations in the U.K.

DISPLAY To help you make the most of all this, there are eye-catching display crowners, boxsleeves and window-stickers. Use them to give *your* display a striking Christmas appeal.

Stock up now for a best-ever Christmas with the new Ronson C ·F·L

Ronson Products Ltd., Leatherhead, Surrey · Telephone: Leatherhead 4444

October 29, 1960



Fresh-aire y Cooper's

Now Cooper's again lead the way... with a **WINTER** promotion for FRESH-AIRE—a coupon advertisement in all the T.V. magazines in all T.V. areas, so that your customers can buy

FRESH-AIRE at 1/- OFF

OFFER OPENS NOV. 3rd CLOSES NOV. 30th

Our representative will redeem the coupon for cash on his next call

DISPLAY NOW for year-round sales

This unique winter Fresh-aire offer will spearhead a year-round movement of other non-seasonal COOPER'S aerosols – WINDOW CLEANER and DRY CLEANER.



60/H/14A

Delanium GRAPHITE

BURSTING DISCS LOW AND MEDIUM PRESSURES

"Delanium" Graphite Bursting Discs are manufactured in two ranges, a LOW PRESSURE range covering pressures from 1–4 psig, and a MEDIUM PRESSURE range covering 5–400 psig, with orifice diameters of 2 in.–12 in. and 1 in.–12 in. respectively.

"Delanium" bursting disc assemblies are completely resistant to the corrosive attack of most acids, alkalis and solvents at temperatures up to 160°C. Manufactured from a highquality graphite, the discs are precision ground to close tolerances and subjected to rigorous permeability and bursting-pressure tests to ensure accuracy of burst. The discs will withstand thousands of pressure applications at 75% of stated burst pressure without loss of accuracy. The design of the discs and vacuum supports assures ample relief opening on rupture for the rapid escape of excess pressures.

Replacement discs are quick and easy to install and for standard pressures are readily available from stock. Holders and vacuum supports costs are generally initial costs only and replacement discs are inexpensive.

RANGE OF DISCS AND PRESSURES				
Orifice Diameter	Bursting Pressure psig			
l in.	20-400			
2 in.	4-200			
3 in,	3-150			
4 in.	2-100			
6 in.	1-75			
8 in.	I-40			
10 in.	1-30			
12 in.*	1-25			

* Larger diameter discs on application.

Powell Duffryn Carbon Products Ltd

Vacuum support for low-pressure range.

> designers and manufacturers of chemical plant in carbon and graphite

SPRINGFIELD ROAD, HAYES, MIDDLESEX Telephone: HAYES 3994 Telegrams: CARBONACES, HAYES

H.P.7480

Volume 174

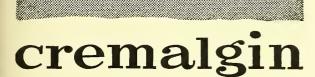
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rubefacient cream

1 oz. tubes trade price 21/- doz. Plus P.T. retail price 3/1 each 1 lb. jars trade price 19/6 each Plus P.T.

detoxicated phenobarbitone-Schedule IV

Bottles 100 tablets trade price 7/6 each Plus P.T. Bottles 500 tablets trade price 27/6 each Plus P.T.



0.5 g. paracetamol analgesic tablets

Bottles 100 tablets trade price 75/- doz. Bottles 500 tablets trade price 27/9 each

TABALGIN brand paracetamol ELIXIR

4 oz. bottle trade price 45/- doz. retail price 5/8

WEST PHARMACEUTICAL CO. LTD



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THE CHEMIST DRUGGIST AND ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

October 29, 1960 No. 4211

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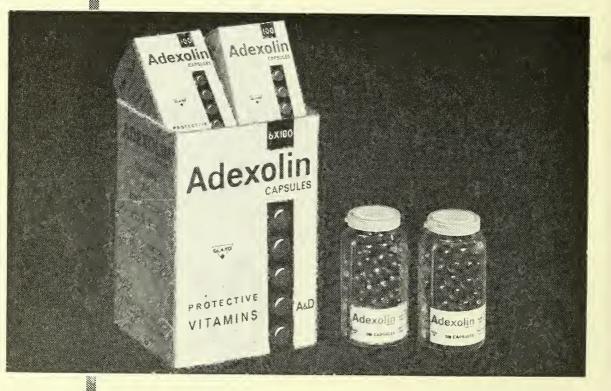
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ANNUAL SUBSCRIPTION which includes The Chemist and Druggist Diary and Year Book, £2 10s. Single copies one shilling each.

October 29, 1960

NEW LOOK PACKS for ADEXOLIN capsules



Specially designed to be a credit to your counters, the new bottles, cartons and display outers for Adexolin capsules present a bright, clean, streamlined appearance. They're easy on the eye—and on your counter space too. Every capsule still contains 6,000 units of vitamin A and 1,000 units of vitamin D—both British made by Glaxo.

IT'S CHEAPER BUY THE DOZEN

LABORATORIES

GL

AXO

Adexolin parcel No. 1	RETAIL PRICE	USUAL TRADE PRICE	SPECIAL 'PARCEL' RATE
2 doz. \times 25 capsules	21- each (48/-)	36/-	32/-
Adexolin parcel No. 2 1 doz. \times 100 capsules	6 - each (72 -)	54/-	48/-
Adexolin is a Glaxo trade	e mark.		

LIMITED,.

18

BROXIL THE HIGH PEAK PENICILLIN FOR BETTER CLINICAL RESULTS

'In short, with the possible exception of bacterial endocarditis, ''broxil'' should be given when previously penicillin G or V has been used.' *Practitioner* (1960) 184, 793.

Broxil, the penicillin of choice, is now available in tablet and syrup forms for convenient oral administration.

BROXIL TABLETS available in strengths of 125 and 250 mg. **BROXIL SYRUP**—bottles of 60 ml. when dispensed (each 5 ml. contains 125 mg.).

Broxil is the potassium salt of 6-(alpha-phenoxypropionamido) penicillanic acid.



BEECHAM RESEARCH Laboratories LTD.BRENTFORD.ENGLAND

THE CHEMIST AND DRUGGIST20October 29, 1960

when you've made your plans

let us make your products

ARTHUR H. COX & CO. LTD Pharmaceutical and medicinal preparations of the highest quality BRIGHTON · ENGLAND

Winthrop Chairman on "Obligation to Make Profits"

In welcoming Lord Boothby, the Chairman of Winthrop Group Ltd., Mr. L. M. Spalton, B.Pharm., M.P.S., said: "The pharmaceutical industry is a free enterprise institution which to survive has an obligation to make profits, and whose members compete strenuously one with another. They compete to find the next advance in therapeutics, and their fine record is so well known to you that I will not repeat it here. They compete to assist the medical profession in any and every way it is within their power or ingenuity to do. They compete to sell and to earn foreign currency for Britain. They compete continuously against themselves and obsolescence. For so dynamic is this industrial quest for knowledge that few drugs can anticipate widespread use for more than about five years."

Mr. Spalton went on to point out that it was time that the contributions of the pharmaceutical industry were more generally recognised and that the competitive circumstances with which it had to grapple—and incidentally the advantages that competition brought—were seen in proper perspective.



Answering the Prime Minister's call

"Four years ago we built in Newcastle-upon-Tyne the most highly mechanized pharmaceutical factory to be completed in postwar Britain. Today nearly 50% of the output of that factory goes overseas. Our pharmaceutical business in Britain is the fourth largest. The Prime Minister recently called for a great band of merchant adventurers to sell British goods overseas. I believe that we in Winthrop have already begun to act in the spirit and the letter of that call."



Transcending National Barriers

"Why do our international company of people find co-operation possible, where elsewhere it is so difficult to obtain? I believe this happy state is due to their possession of a common purpose which transcends national barriers, and the job satisfaction that comes' from rendering a service of immense value to their fellow men."

Plaquenil breaks through the Iron Curtain

"Winthrop people know no barrier of nationality, race, creed, or colour, save the Iron Curtain. And whilst that barrier at present resists Winthrop people, it is not impervious to Winthrop products. Today Planquenil, our latest contribution to the treatment of rheumatoid arthritis, is being exported to treat patients in Czechoslovakia and Poland, and is under clinical evaluation in Moscow."

THE WINTHROP GROUP

Winthrop Group Ltd. comprises companies and divisions operating throughout Western Europe which, individually and collectively, fare concerned with the discovery, development, manufacture and distribution of pharmaceutical products. In this country the Group includes Bayer Products and Winthrop Laboratories. Winthrop House is the new British headquarters.

CONTROVERSIAL MEDICAL EXHIBITION EXTENDED

"Medicine Men of Today", the exhibition originally designed to mark the opening of Winthrop Group's new headquarters at Surbiton - upon - Thames, has aroused so much comment, and attendance is such that it is now being extended until Friday, the 25th of November.

The hours of the exhibition are : Mon.—Thur. and Sat. : 11 - 8.30; Fri. : 11-4. Travelling time from Waterloo station is about 15 minutes.

Pharmacists and their friends are warmly invited to visit the exhibition.

Issued by **Bayer Products** Division of Winthrop Group Ltd., Surbiton-upon-Thames, Surrey.

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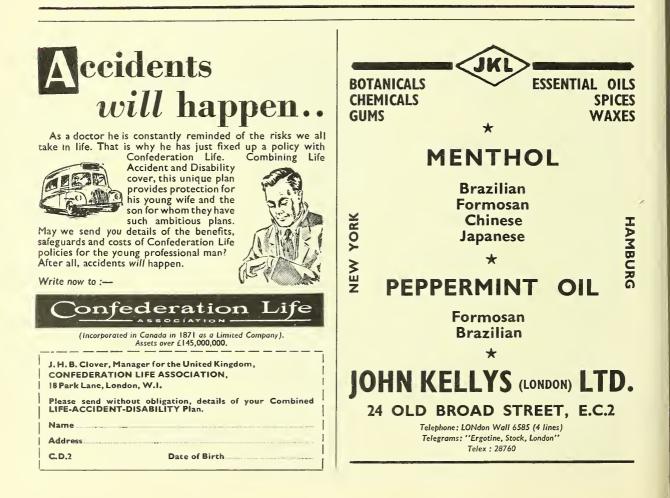
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Basic NHS Price

50 G tube 7/4d. P.T. 1/10d. 100 G tube

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6

AND WILSON

For Your TABLETS

We have long experience in the FORMULATION AND MANUFACTURE of medicinal tablets of all types for pharmaceutical organisations, hospital authorities and proprietary houses, both at home and for most countries of the world—All standard B.P., B.P.C., N.F. Tablets are stocked for prompt delivery

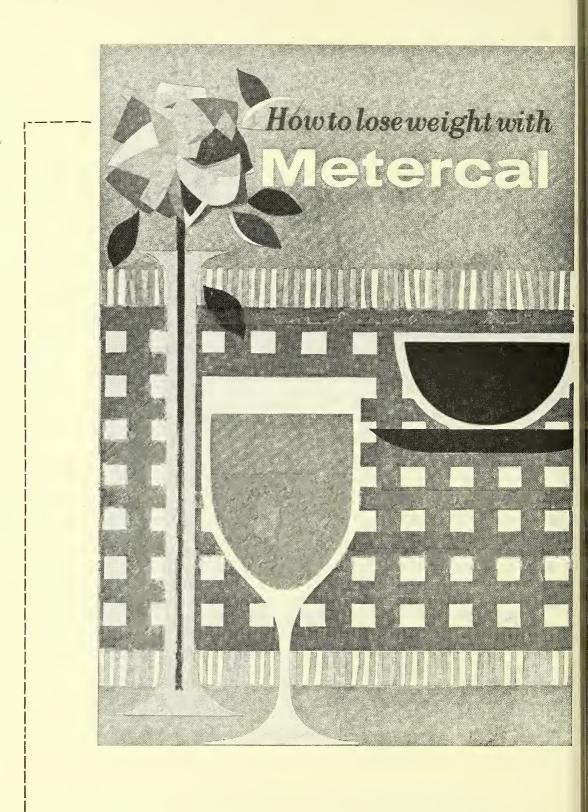
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MATTHEWS & WILSON LTD.

Larkhall Works, Morrish Road, London, S.W.2. Tel:TULSE HILL 5881/2

THE CHEMIST AND Supplement DRUGGIST

October 29, 1960



All about Metercal

The new natural way of losing weight

Free-FOR YOUR CUSTOMERS

Mead Johnson are offering this free 8-page booklet, which contains all the details and advice your customers will require concerning Metercal —a new concept in weight control. Metercal is itself a food—it nourishes, and at the same time reduces weight. Details include a calorie chart and menu suggestions for those on a dieting programme.

Free-FOR YOU

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It will also give potential customers complete assurance as to what Metercal *is* and *does*.

- ★ METERCAL is a new concept in weight control
- ★ METERCAL is nutritionally sound
- ★ METERCAL gives appetite satisfaction
- METERCAL is clinically proven and full information has been supplied to the
- medical profession METERCAL contains no drugs, no appetite
 depressants, or bulking agents

Ask your Mead Johnson Representative for booklets and attractive point-of-sale material, or write to Mead Johnson Limited, 10 Upper Grosvenor Street, London, W.1.

Order Metercal from your wholesaler today



Mead Johnson

NEW from BENBOWS, famous for DOG-HEALTH PRODUCTS -SUPER VITAMIN CONDITION TABLETS



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- is a GAY DOG

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for feminine

Irregularity and lassitude. Over 1/9 BOX PROFIT by ordering 1 dozen 6/3

size. Bonus given on every dozen (13).

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packed in glass jars for convenience and better protection. Available in various sizes.



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LEYLAND MILLS WIGAN



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Registered Trade Mark of British Nylon Spinners Limited. BRI-NYLON FOR THE BEST IN NYLON

PHA 1611/120



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Every family has its own characteristics by which it is easily recognized; the M&B "family" of fine pharmaceuticals is known throughout the world for consistent purity and reliability. To maintain these high standards, every chemical – and there are over 200 of them – undergoes strict analytical control in all stages of its manufacture.

You can place complete confidence in M&B brand pharmaceutical chemicals.

MAB for fine pharmaceuticals



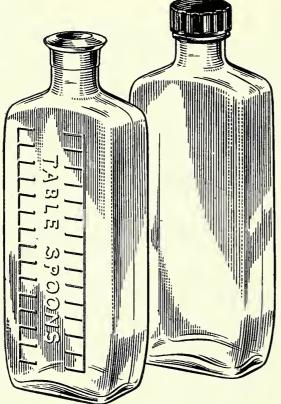
CAFFEINE B.P. ANTYDROUS CAFFEINE B.P. MONOHYDRAIE CAFFEINE CITRATE B.P.C.

Further information is available on request

Manufactured by MAY & BAKER LTD · DAGENHAM · Tel: DOMinion 3060 · Exts: 317, 318

October 29, 1960

The Beatson Medical



Be sure to specify BEATSON

AVAILABILITY-THE BEATSON MEDICAL

Cork Mouth-Ungraduated. 1, 2, 3, 4, 6, 8, 10, 12, 16, 20 oz. Graduated Teaspoons. 2, 3, 4 oz. Graduated Tablespoons. 4, 6, 8, 10, 12, 16 oz. Parts. 6 oz. in 6 parts. 8 oz. in 8 parts. 12 oz. in 12 parts.

Screw Neck—Ungraduated. 1, 2, 3, 4, 6, 8, 10, 12, 16, 20 oz. Graduated Teaspoons. 4 oz. Graduated Tablespoons. 6, 8, 10, 12, 16 oz.

Screw Neck—AMBER now available. 4, 8, 16 oz.



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ARMOUR PHARMACEUTICAL COMPANY LTD

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October 29, 1960



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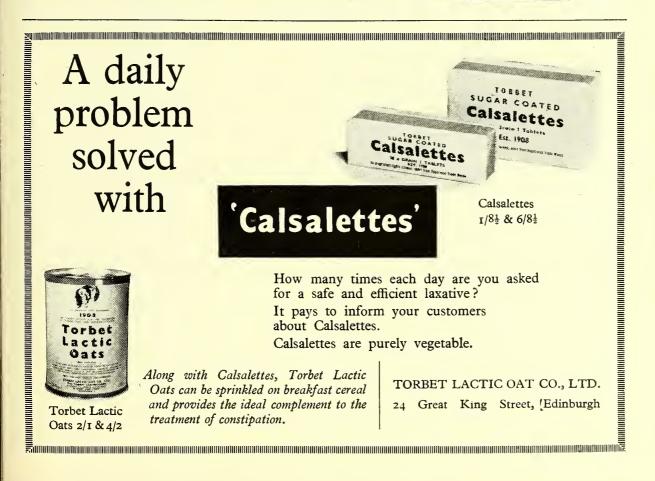
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CHEMIST'S DICTIONARY OF MEDICAL TERMS 7th Edition

Prepared primarily for pharmacists, the Dictionary is indispensable also for pharmaceutical manufacturers, advertisement writers concerned with the marketing of medicinal products and indeed all who have to delve into the multifarious medicinal compounds of modern times.

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With new emulsifying agents continually coming on to the market (others being withdrawn), the index of proprietary emulsifiers included in this essentially practical handbook would alone make the possession of each new edition a "must" for practising pharmacists, technologists and students. Revised by Mr. R. F. White, the edition is fully up-to-date and informative. 140 pages. Price 9s. Postage 8d.

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Price £1 1s. 0d. Postage 1s. 4d.

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Formerly Veterinary Counter Practice. Provides the pharmacist with adequate and up-to-date information on animal diseases, their causes and the drugs used in their control, thus enabling him to answer the inquiries and meet the requirements of members of the veterinary profession; to dispense their prescriptions; and to handle with knowledge the goods that farmers, poultry keepers and pet owners are accustomed to buy from him,

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Apply in writing, stating agc, qualifications, details of experience and the names and addetails of experience and une names and au-dresses of three referees, to the Group Secre-tary, Hendon Group Hospital Management Committee, Edgware General Hospital, Edg-ware, Middlesex, by 12th November, 1960, C 5991

GENERAL HOSPITAL, SOUTHEND-ON-SEA Post-graduate Student required in the Pharmacies of the Hospitals in the Southend-on-Sea Group. Salary £400 per-annum. The Hospitals are situated in pleasant surroundings and the post offers excellent op-portunities for experience in all branches of pharmaceutical work including dispensing for inpatients and for patients from a busy Con-sultative Outpatient Department, manufacturing, storlising, dressings and instruments, Applicastcrilising, dressing s and instruments, Applica-tions stating age, particulars of education, etc., with the names of two referees, should be sent to the Secretary at the Hospital as soon as possible. C 5987

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required. Commencing salary £690 to £815 p.a. according to experience, Late Clinics up to six hours per week at 12/6 per hour. Newly qualified Pharmacist welcomed, Appli-cations with two referees to Secretary, C 5968

LONDON JEWISH HOSPITAL, LONDON JEWISH HUGHTAG STEPNEY GREEN, E.1 Locum Assistant-in-Dispensing required. Applications to be sent to the Chief Pharmacist (Tcl.: STEpney Green 4251). C 5965

LONDON JEWISH HOSPITAL

LONDON JEWISH HOSPITAL, STEPNEY GREEN, E.1 Assistant-in-Dispensing required. Whiley Council salary scale and conditions of service. Applications in writing with full details and the names of two re-ferces, to be sent to the Chief Pharmacist (Tel.: STEpney Green 4251). C 5962

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required—Salary £60—£920 according to pre-vious experience and service. Applications to House Governor.

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required at the above hospital from 7th Nov-ember, 1960. Whitley Council salary scale and conditions of service, Applications in writ-ing, with full details of age, qualifications, experience, etc., and the names of two referees to be sent to the Chief Pharmacist, C 5963

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4251). SPRINGFIELD HOSPITAL, LONDON, S.W.17 Senior Pharmacist required. Whitley Council salary scale and conditions of service. Applications immediately to: Group Secretary, Springfield Hospital, Beecheroft Road, London, S.W.17, giving asc, qualifications, details of experience and names of two referees. C 5954

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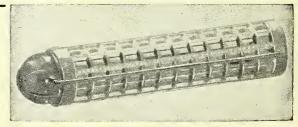
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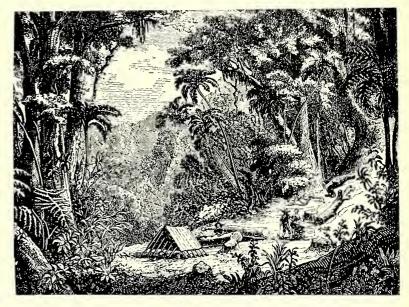
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THE CHEMIST AND DRUGGIST

QUININE



Reproduction of an engraving in Weddell's "Histoire naturelle des Quinquinas," 1849. Bark-peeling in the Forests of Carabaya in Peru (the Valley of San Juan del Oro). One of the cascarilleros, or barkers, is engaged in barking a felled stem; two others are piling the bark in square heaps to flatten and dry it : while a fourth is seen in the distance carrying a load of the dried material on his back to the camp. By kind permission of H. A. Churchill Ltd., publishers of the Textbook of Pharmacognosy by T. E. Wallis,

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You order **48** tubes— Your bonus is— **6** tubes of Savlon lozenges + **1** tube Savlon cream = bonus retail value **15/-**

BONUS PARCEL 2.

You order 96 tubes— Your bonus is— 15 tubes of Savlon lozenges + 2 tubes Savlon cream = bonus retail value 36/3

BONUS PARCEL 3.

You order **192** tubes— Your bonus is— **36** tubes of Savlon lozenges + **5** tubes Savlon cream = bonus retail value **87/6**

BONUS PARCEL 4.

You order **288** tubes— Your bonus is— **72** tubes of Savlon lozenges + **10** tubes Savlon cream = bonus retail value **175/-**

These "bonus bonuses" cover the purchase taxes of 2/1, 5/2, 12/6 and 25/- on the respective bonus parcels. Which goes to show that we think of everything.

RETAIL PRICE 2/5d INCLUDING PURCHASE TAX (ICI) Ph.

Imperial Chemical Industries Limited. Pharmaceuticals Division. Wiimsiow, Cheshire